


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐**APPLICATION FOR PERMIT TO DRILL**

2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				1. WELL NAME and NUMBER NBU 920-23D		
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO				3. FIELD OR WILDCAT NATURAL BUTTES		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				7. OPERATOR PHONE 720 929-6587		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 0577A		11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		9. OPERATOR E-MAIL mary.mondragon@anadarko.com		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Tribe				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	429 FNL 967 FWL	NWNW	23	9.0 S	20.0 E	S
Top of Uppermost Producing Zone	429 FNL 967 FWL	NWNW	23	9.0 S	20.0 E	S
At Total Depth	429 FNL 967 FWL	NWNW	23	9.0 S	20.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 429		23. NUMBER OF ACRES IN DRILLING UNIT 2091		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 900		26. PROPOSED DEPTH MD: 10575 TVD: 10575		
27. ELEVATION - GROUND LEVEL 4835		28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		

ATTACHMENTS**VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP
NAME Danielle Piernot	TITLE Regulatory Analyst
SIGNATURE	PHONE 720 929-6156
API NUMBER ASSIGNED 43047505740000	DATE 07/16/2009
APPROVAL	EMAIL danielle.piernot@anadarko.com
 Permit Manager	

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	10575		
Pipe	Grade	Length	Weight			
	Grade HCP-110 LT&C	975	11.6			
	Grade I-80 LT&C	9600	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2700		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2700	36.0			

T9S, R20E, S.L.B.&M.

Found 1968
Brass Cap with
2 Stones.

N89°57'W 39.95 (G.L.O.)
S89°56'34"E - 2637.34' (Meas.)

S89°45'W 39.92 (G.L.O.)

N1°58'W 80.02 (G.L.O.) 2640.47' (Measured)
N01°55'32"W (Basis of Bearings)

N01°53'59"W - 2643.40' (Meas.)

Found 1968
Brass Cap in
Pile of Stones

Found 1968
Brass Cap

**WELL LOCATION:
NBU 920-23D**

ELEV. UNGRADED GROUND = 4834.9'

23

NBU 920-23D (Proposed Well Head)
NAD 83 LATITUDE = 40.026895° (40°01'36.821")
LONGITUDE = 109.640075° (109°38'24.269")
NAD 27 LATITUDE = 40.026930° (40°01'36.948")
LONGITUDE = 109.639383° (109°38'21.778")

Found 1968
Brass Cap.
Pile of Stones.

Found 1968
Brass Cap
near S-E
Fence Corner

1/4 Corner
not Found

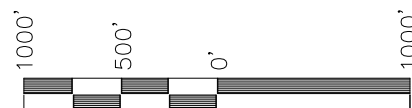
Found 1968
Brass Cap.
Pile of Stones.
Cap is on a
Fence Line.

N01°51'20"W - 2674.48' (Measured)
N2°48'W 81.08 (G.L.O.)

N89°23'41"W - 5356.02' (Meas.)
N89°24'W 81.14 (G.L.O.)

NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
- 3. Bearings are based on Global Positioning Satellite observations.
- 4. Basis of elevation is the Northwest Corner of Section 12, T9S, R20E, S.L.B.&M. The elevation of this Section Corner is shown on the Ouray SE 7.5 Min. Quadrangle as being 4676'.



SCALE

SURVEYOR'S CERTIFICATE

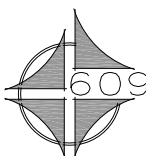
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Kelly R. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 362251
STATE OF UTAH

**Kerr-McGee
Oil & Gas Onshore, LP**

1099 18th Street - Denver, Colorado 80202

**NBU 920-23D
WELL PLAT
429' FNL, 967' FWL
NW 1/4 NW 1/4 OF SECTION 23, T9S, R20E,
S.L.B.&M. UTAH COUNTY, UTAH.**



CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.

209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 01-07-09	SURVEYED BY: B.J.S.	SHEET 1 OF 9
DATE DRAWN: 01-02-09	DRAWN BY: K.K.O.	
SCALE: 1" = 1000'	Date Last Revised: 02-17-09	

NBU 920-23D

Surface: 429' FNL, 967' FWL (NW/4NW/4)
Sec. 23 T9S R20E

Uintah, Utah
Mineral Lease: UTU 0577A

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,735'	
Birds Nest	1,976'	Water
Mahogany	2,490'	Water
Wasatch	5,141'	Gas
Mesaverde	8,454'	Gas
MVU2	9,413'	Gas
MVL1	9,926'	Gas
TD	10,575'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,575' TD, approximately equals 6,588 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4,262 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

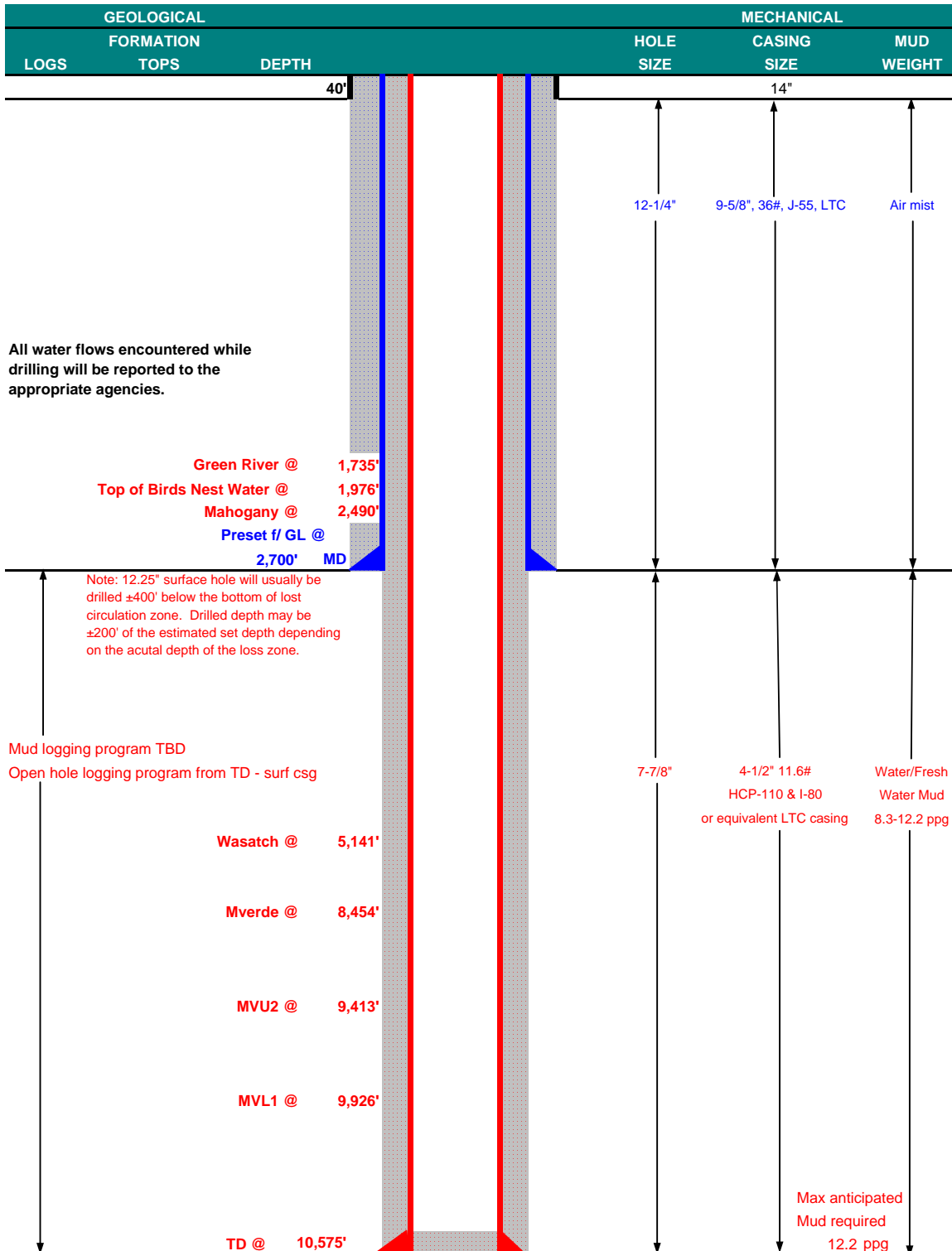
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	July 9, 2009		
WELL NAME	NBU 920-23D					TD	10,575' MD/TV D		
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4,832'	
SURFACE LOCATION	NW/4 NW/4	429' FNL	967' FWL	Sec 23	T 9S	R 20E	BHL	Straight Hole	
	Latitude:	40.026895	Longitude:	-109.640075		NAD 83			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), Ute Tribe (SURFACE), UDOGM, Tri-County Health Dept.								





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2700	36.00	J-55	LTC	0.80*	1.60	4.66
						7,780	6,350	201,000
PRODUCTION	4-1/2"	0 to 9600	11.60	I-80	LTC	1.78	1.04	2.01
						10,690	8,650	279,000
		9600 to 10575	11.60	HCP-110	LTC	2.44	1.29	30.32

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.07

1) Max Anticipated Surf. Press. (MASP) (Surf Csg) = (Pore Pressure at next csg point - (0.22 psi/ft-partial evac grad x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.2 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 4,262 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.2 ppg)

0.62 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 6,588 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (6 jobs) 1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	380	0%	15.60	1.18
NOTE: If well will circulate water to surface, option 2 will be utilized						
SURFACE Option 2	LEAD 2,200'	Prem cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC	250	35%	11.00	3.82
	TAIL 500	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD 4,635'	Premium Lite II + 0.25 pps celloflake + 5 pps gilsonite + 10% gel ' + 1% Retarder	440	40%	11.00	3.38
	TAIL 5,940'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1450	40%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint for a total of 15 bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

John Huycke / Emile Goodwin

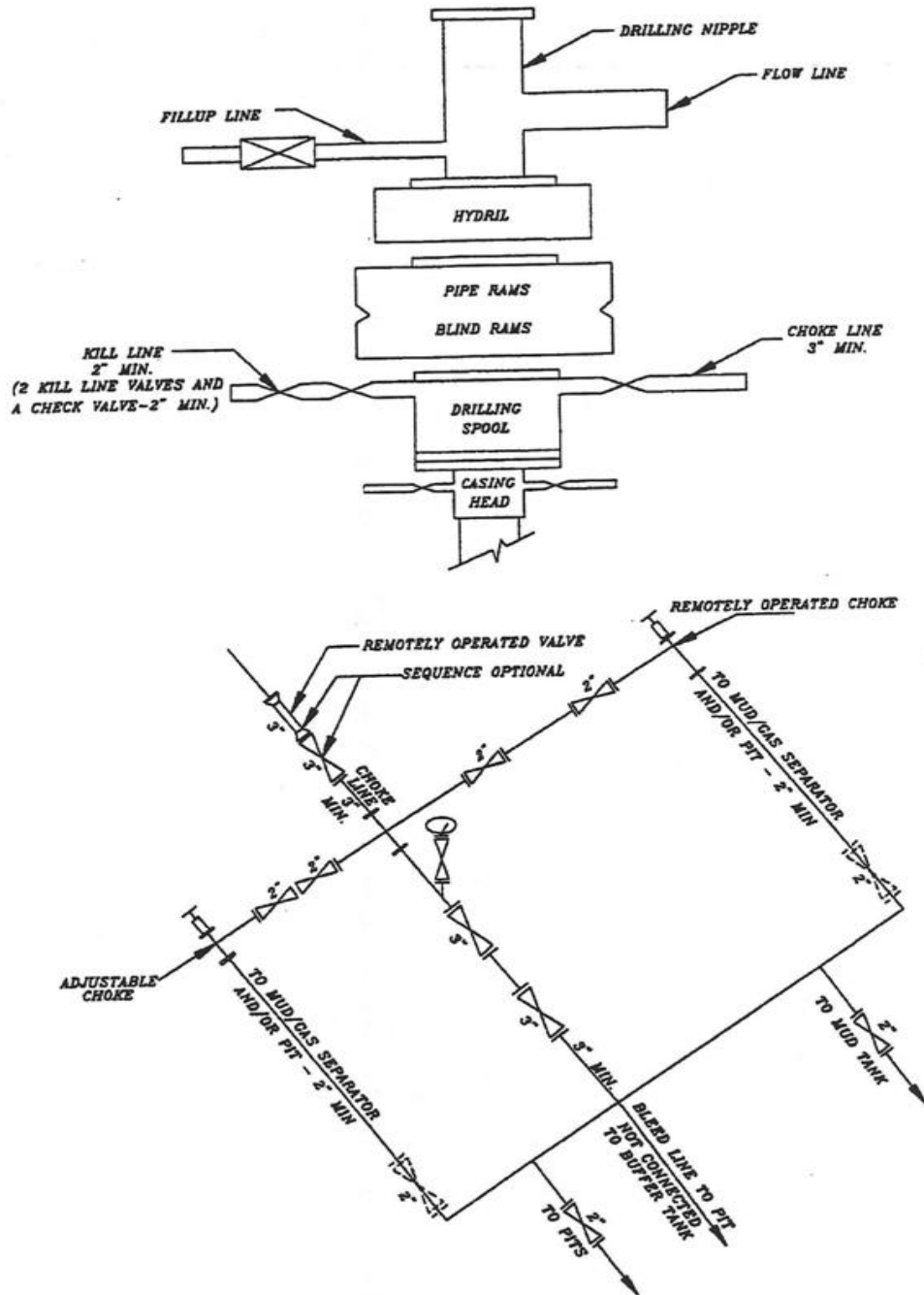
DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:

EXHIBIT A NBU 920-23D



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

APIWellNo:43047505740000
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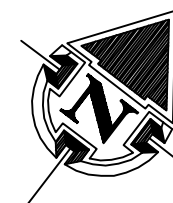
WELL PAD LEGEND

- WELL LOCATION
- - - EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)

WELL PAD NBU 920-23D QUANTITIES

EXISTING GRADE @ LOC. STAKE = 4,834.9'
FINISHED GRADE ELEVATION = 4,831.5'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 16,766 C.Y.
TOTAL FILL FOR WELL PAD = 16,586 C.Y.
TOPSOIL @ 6" DEPTH = 3,182 C.Y.
EXCESS MATERIAL = 180 C.Y.
TOTAL DISTURBANCE = 3.95 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 28,730 BARRELS
RESERVE PIT VOLUME
+/- 7,720 CY
BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
+/- 9,490 BARRELS
BACKFLOW PIT VOLUME
+/- 2,660 CY



HORIZONTAL 0 50 100 1" = 100'
2' CONTOURS

KERR-MCGEE OIL & GAS
ONSHORE L.P.
1099 18th Street - Denver, Colorado 80202

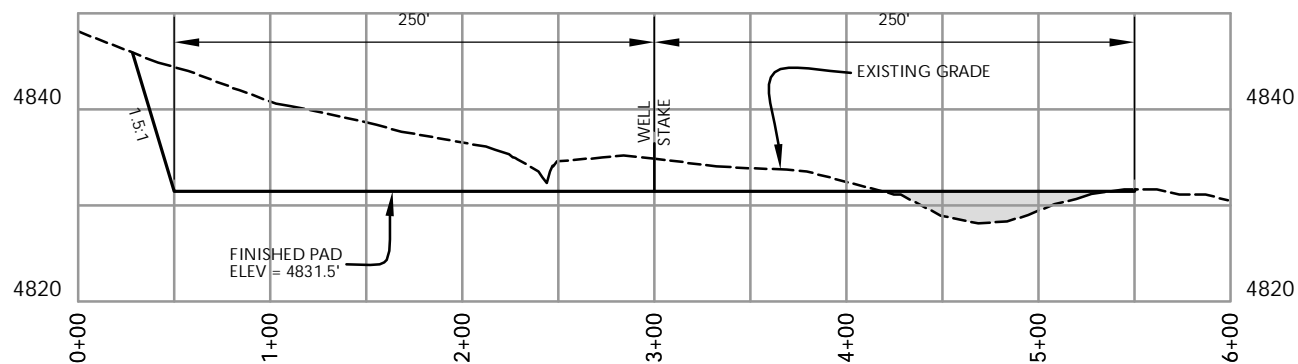


CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

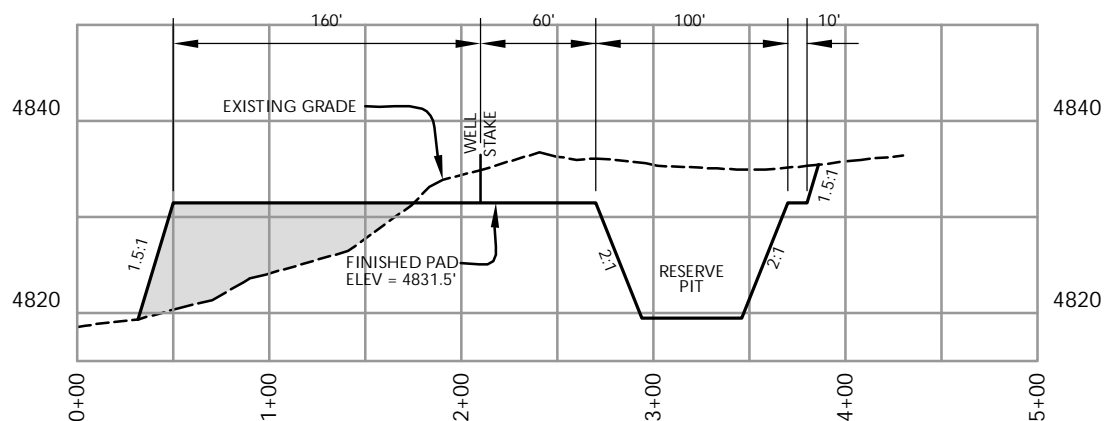
NBU 920-23D
WELL PAD - LOCATION LAYOUT
429' FNL, 967' FWL
NW1/4 NW1/4, SECTION 23, T9S, R20E,
S.L.B.&M., UINTAH COUNTY, UTAH

Scale: 1"=100'	Date: 2/20/09	SHEET NO:
REVISED:	BY DATE	2 2 OF 9

Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078



CROSS SECTION A-A'



CROSS SECTION B-B'

NOTE: CROSS SECTION B-B' DEPICTS
MAXIMUM RESERVE PIT DEPTH.

**KERR-MCGEE OIL & GAS
ONSHORE L.P.**

1099 18th Street - Denver, Colorado 80202



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Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

NBU 920-23D
WELL PAD - CROSS SECTIONS
429' FNL, 967' FWL
NW1/4 NW1/4, SECTION 23, T9S, R20E,
S.L.B.&M., UINTAH COUNTY, UTAH

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Date: 2/20/09

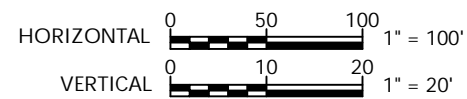
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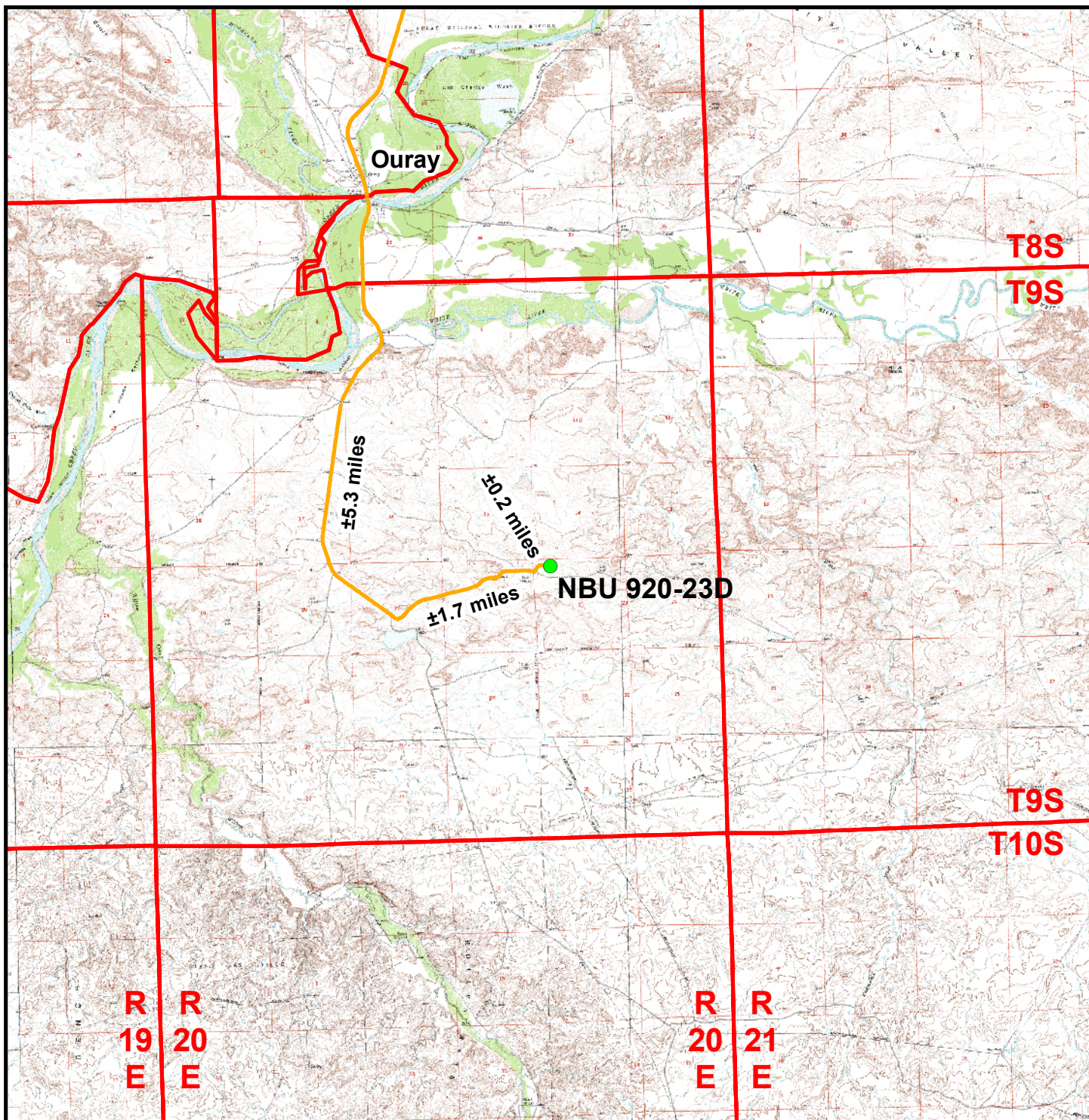
BY
DATE

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3 OF 9



Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078



Legend

- Proposed NBU 920-23D Well Location
- Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

NBU 920-23D
Topo A
429' FNL, 967' FWL
NW¼ NW¼, Section 23, T9S, R20E
S.L.B.&M., Uintah County, Utah


609
CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



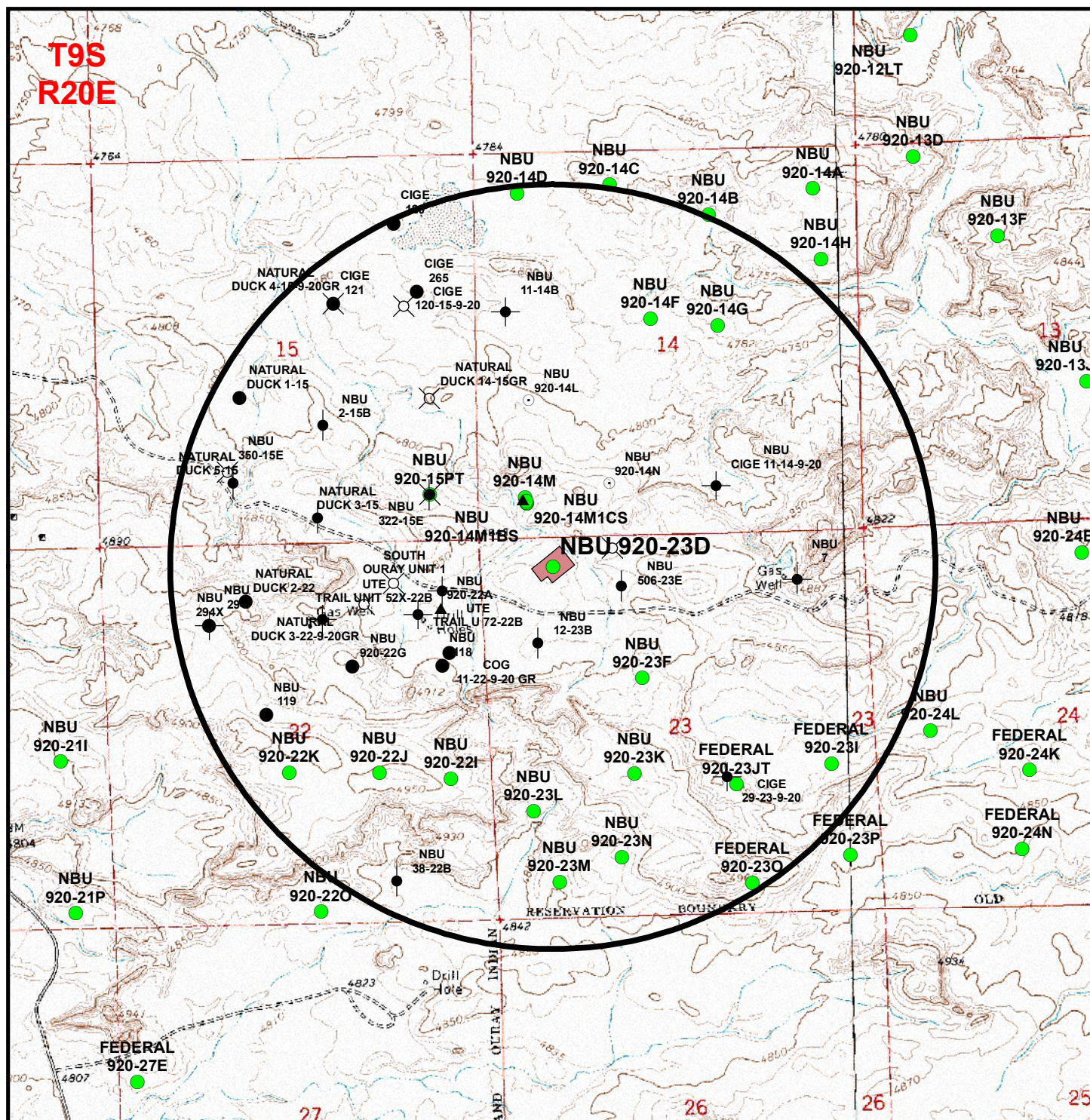
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Drawn: JELO	Date: 16 Feb 2009
Revised:	Date:

Sheet No:

5

5 of 9

Sheet No:
6 6 of 9



Legend

- Well - Proposed
- Well - 1 Mile Radius
- Producing
- ▲ Approved permit (APD); not yet spudded
- Spudded (Drilling commenced: Not yet complete)
- ✕ Location Abandoned
- Temporarily-Abandoned
- Plugged and Abandoned
- Shut-In

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

NBU 920-23D
Topo C
429' FNL, 967' FWL
NW¼ NW¼, Section 23, T9S, R20E
S.L.B.&M., Uintah County, Utah

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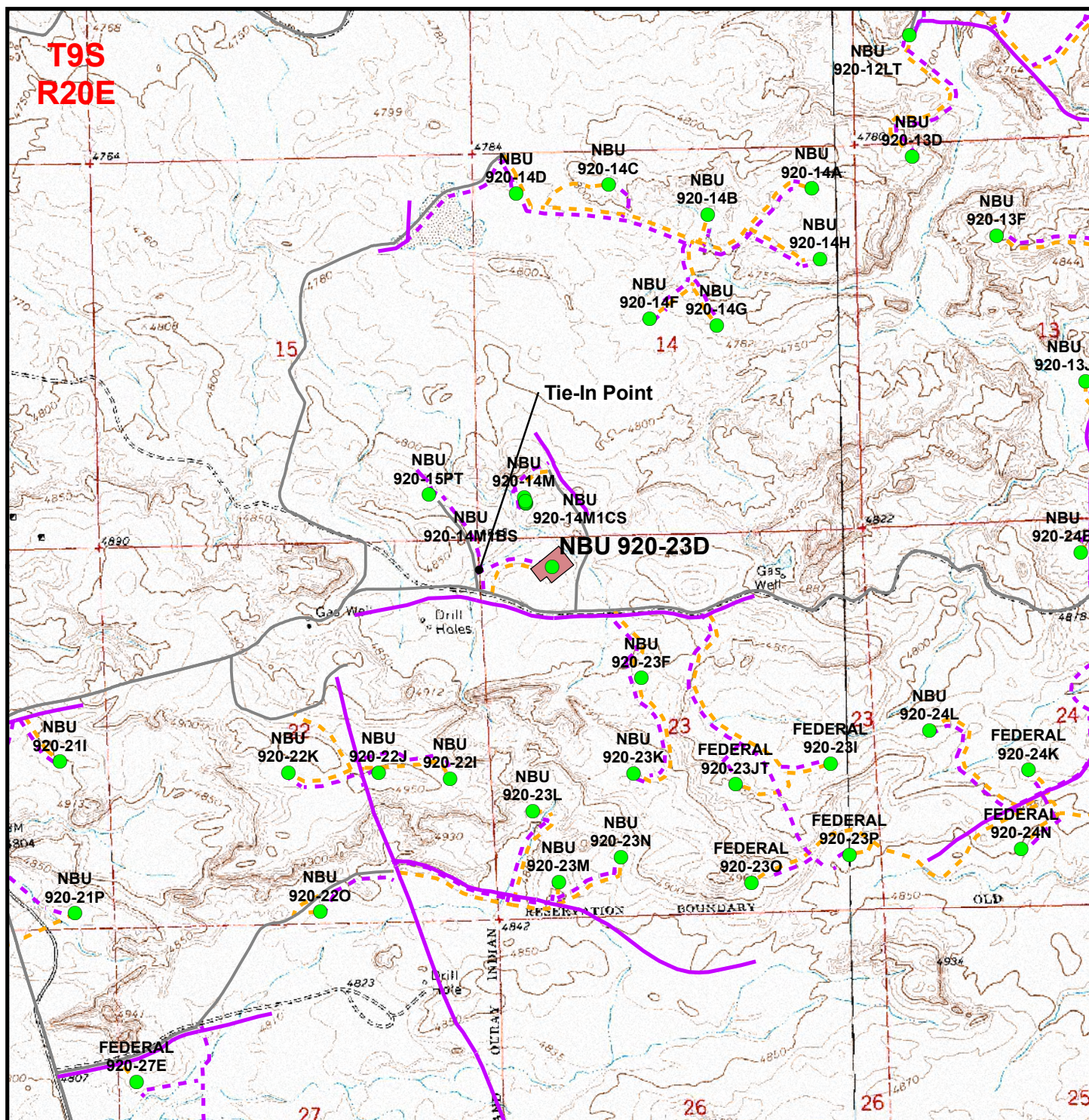


Scale: 1" = 2000ft
NAD83 USP Central
Drawn: JELO
Revised:

Sheet No:

7

7 of 9



Legend

- Well - Proposed
- Well Pad
- - - Pipeline - Proposed
- - - Road - Proposed
- Pipeline - Existing
- Road - Existing

Proposed Pipeline Length From Tie-In Point To Edge Of Pad: ± 815 ft
Proposed Pipeline Length Around Pad: ± 660 ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

NBU 920-23D
Topo D
429' FNL, 967' FWL
NW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 23, T9S, R20E
S.L.B.&M., Uintah County, Utah

609
CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2000ft
NAD83 USP Central
Drawn: JELO
Revised:
Date: 16 Feb 2009
Date:

Sheet No:

8

8 of 9



PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHERLY

Kerr-McGee
Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

NBU 920-23D
429' FNL, 967' FWL
NW $\frac{1}{4}$ NW $\frac{1}{4}$ OF SECTION 23, T9S, R20E,
S.L.B.&M. UINTAH COUNTY, UTAH.



CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

LOCATION PHOTOS

TAKEN BY: B.J.S.

DRAWN BY: K.K.O.

DATE TAKEN: 01-07-09

DATE DRAWN: 02-02-09

REVISED: 02-17-09

Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
209 NORTH 300 WEST VERNAL, UTAH 84078

SHEET
4
OF 9

Kerr-McGee Oil & Gas Onshore, LP
NBU 920-23D
Section 23, T9S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 5.3 MILES TO THE INTERSECTION OF A SERVICE ROAD TO THE NORTHEAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY, THEN EASTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 1.7 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 810 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 37.9 MILES IN A SOUTHERLY DIRECTION.

NBU 920-23D

Surface: 429' FNL, 967' FWL (NW/4NW/4)
Sec. 23 T9S R20E

Uintah, Utah

Mineral Lease: UTU 0577A
Surface Owner: Ute Indian Tribe

ONSHORE ORDER NO. 1

***MULTI-POINT SURFACE USE & OPERATIONS PLAN
SUBMITTED WITH SITE-SPECIFIC INFORMATION***

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) and Bureau of Indian Affairs (BIA) documents. An NOS was submitted showing the surface location in the NW/4 NW/4 of Section 23 T9S R20E.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information is to be incorporated by reference into the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee). The MDP is available upon request from the BIA-Ft Duchesne Office.

An on-site meeting was held on June 24, 2009. Present were:

- Verlyn Pindell and Dave Gordon – BLM;
- Kolby Kay and Mitch Batty – Timberline Surveying, Inc.
- Tony Kazeck, Jeff Samuels, Raleen White, David Liddell, and Hal Blanchard – Kerr-McGee
- Bucky Secakuku – BIA
- Nick Hall – Grasslands Consulting, Inc.
- Scott Carson – Smiling Lake Consulting
- Keith Montgomery – Montgomery Archaeological Consultants, Inc.

1. Existing Roads:

- A) Refer to Topo Map A for directions to the location.
- B) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:

See MDP for additional details on road construction.

Approximately ± 0.15 miles ($\pm 810'$) of new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and are typically shown on the attached Exhibits and Topo maps.

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing and Proposed Facilities:**

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

Approximately $\pm 1,475'$ of pipeline is proposed. Refer to Topo D for the existing pipeline.

Appropriate surface use agreements have been or will be obtained from the Ute Indian Tribe. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place

5. **Location and Type of Water Supply:**

See MDP for additional details on Location and Type of Water Supply.

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, Application number 53617. Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. **Source of Construction Materials:**

See MDP for additional details on Source of Construction Materials.

7. **Methods of Handling Waste Materials:**

See MDP for additional details on Methods of Handling Waste Materials.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E

NBU #159 in Sec. 35 T9S R21E

Ace Oilfield in Sec. 2 T6S R20E

MC&MC in Sec. 12 T6S R19E

Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

8. **Ancillary Facilities:**

See MDP for additional details on Ancillary Facilities.

None are anticipated.

9. **Well Site Layout:** (See Location Layout Diagram)

See MDP for additional details on Well Site Layout.

All pits will be fenced according to the following minimum standards:

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

10. Plans for Reclamation of the Surface:

See MDP for additional details on Plans for Reclamation of the Surface.

Kerr-McGee shall call the BIA for the seed mixture prior to starting interim and/or final reclamation actions.

11. Surface/Mineral Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe
PO Box 70
Fort Duchesne, Utah 84026
435-722-5141

The mineral ownership is listed below:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
435-781-4400

12. Other Information:

See MDP for additional details on Other Information.

13. Lessee's or Operators' Representative & Certification:

Kathy Schneebeck Dulnoan
Staff Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6007

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Kathy Schneebeck Dulnoan

July 15, 2009
Date

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 88 PROPOSED WELL LOCATIONS
(T9S, R20E, SECS. 1, 14, 15, 20, 21, 22, 23, 27, 29, 32, 33, 34)
UINTAH COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

Ute Indian Tribe
Uintah and Ouray Agency

Prepared Under Contract With:

Kerr-McGee Oil and Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 08-318

March 4, 2009

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

Paleontological Assessment for Anadarko Petroleum Corp.

NBU 920-23D

Ouray Quadrangle

Uintah County, Utah

Prepared for

Anadarko Petroleum Corp.

and

Ute Tribe

Uintah and Ouray Reservation

Prepared by

SWCA Environmental Consultants

SWCA #UT09-14314-10



Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237

(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Operator: Kerr-McGee Oil & Gas Onshore LP

Wells: NBU 920-23D, NBU 920-23F, NBU 920-23I, NBU 920-23J, NBU 920-23K, NBU 920-23L, NBU 920-23M, NBU 920-23N, NBU 920-23O, NBU 920-23P

Pipelines: Proposed pipelines leading to all proposed wells.

Access Roads: Access roads lead to all proposed wells.

Location: Section 23, Township 9 South, Range 20 East; Uintah County, Utah

Survey-Species: Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*) and nesting raptors

Date: 06/15/2009, 06/16/2009, and 06/18/2009

Observer(s): Grasslands Consulting, Inc. Biologists: Chris Gayer, Nick Hall, BJ Lukins, Jay Slocum, Dan Hamilton, Matt Kelahan, and Jonathan Sexauer. Technicians: Chad Johnson.

Weather: Partly cloudy, 80-85°F, 0-5 mph winds with no precipitation.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160
(UT-922)

July 17, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2009 Plan of Development Natural Buttes Unit Uintah
County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2009 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ WASATCH-MESA VERDE)

43-047-50555	NBU 920-23M	Sec 23 T09S R20E 0510 FSL 0821 FWL
43-047-50560	NBU 920-22N	Sec 22 T09S R20E 1206 FSL 2411 FWL
43-047-50562	NBU 920-20G3CS	Sec 20 T09S R20E 2011 FSL 0794 FEL
	BHL	Sec 20 T09S R20E 2580 FNL 2660 FEL
43-047-50563	NBU 920-23N	Sec 23 T09S R20E 0837 FSL 1702 FWL
43-047-50566	NBU 920-20H4CS	Sec 20 T09S R20E 1993 FSL 0786 FEL
	BHL	Sec 20 T09S R20E 2410 FNL 0650 FEL
43-047-50567	NBU 920-20I2AS	Sec 20 T09S R20E 2029 FSL 0803 FEL
	BHL	Sec 20 T09S R20E 2415 FSL 0925 FEL
43-047-50568	NBU 920-20L4CS	Sec 20 T09S R20E 0660 FSL 0849 FWL
	BHL	Sec 20 T09S R20E 1470 FSL 0675 FWL
43-047-50569	NBU 920-20M2AS	Sec 20 T09S R20E 0656 FSL 0829 FWL
	BHL	Sec 20 T09S R20E 1205 FSL 0650 FWL
43-047-50570	NBU 920-20M3AS	Sec 20 T09S R20E 0652 FSL 0810 FWL
	BHL	Sec 20 T09S R20E 0545 FSL 0660 FWL
43-047-50571	NBU 920-23F	Sec 23 T09S R20E 1988 FNL 2118 FWL
43-047-50572	NBU 920-23K	Sec 23 T09S R20E 1996 FSL 1939 FWL
43-047-50573	NBU 920-23L	Sec 23 T09S R20E 1491 FSL 0517 FWL
43-047-50574	NBU 920-23D	Sec 23 T09S R20E 0429 FNL 0967 FWL
43-047-50575	NBU 920-15I	Sec 15 T09S R20E 2071 FSL 0562 FEL
43-047-50576	NBU 920-14F	Sec 14 T09S R20E 2335 FNL 2412 FWL
43-047-50577	NBU 920-14C	Sec 14 T09S R20E 0477 FNL 1890 FWL
43-047-50578	NBU 920-14B	Sec 14 T09S R20E 0981 FNL 2071 FEL
43-047-50579	NBU 920-14A	Sec 14 T09S R20E 0589 FNL 0593 FEL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File – Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:7-17-09

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/16/2009

API NO. ASSIGNED: 43047505740000

WELL NAME: NBU 920-23D

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NWNW 23 090S 200E

Permit Tech Review: ☒

SURFACE: 0429 FNL 0967 FWL

Engineering Review: ☒

BOTTOM: 0429 FNL 0967 FWL

Geology Review: ☒

COUNTY: Uintah

LATITUDE: 40.02687

LONGITUDE: -109.63947

UTM SURF EASTINGS: 616094.00

NORTHINGS: 4431416.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 0577A

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ **PLAT**
- ☒ **Bond:** FEDERAL - WYB000291
- ☐ **Potash**
- ☒ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** Permit #43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☒ **Intent to Commingle**

Commingle Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:** NATURAL BUTTES
- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 173-14
- Effective Date:** 12/2/1999
- Siting:** 460' fr u bdry & uncomm. tract
- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
3 - Commingle - ddoucet
4 - Federal Approval - dmason
17 - Oil Shale 190-5(b) - dmason



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 920-23D
API Well Number: 43047505740000
Lease Number: UTU 0577A
Surface Owner: INDIAN
Approval Date: 8/11/2009

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingling:

In accordance with Cause No. 173-14 commingling the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during

drilling of this well:

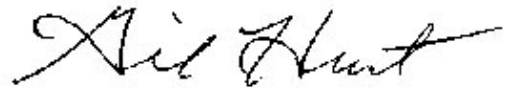
- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
- OR
- submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "Gil Hunt", with a stylized, cursive script.

Gil Hunt
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUL 15 2009

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0577A
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERRMCGEE OIL&GAS ONSHORE LP Contact: DANIELLE E PIERNOT Email: Danielle.Piernot@anadarko.com		7. If Unit or CA Agreement, Name and No. 891008900A
3a. Address PO BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156	8. Lease Name and Well No. NBU 920-23D
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW 429FNL 967FWL 40.02690 N Lat, 109.64008 W Lon At proposed prod. zone NWNW 429FNL 967FWL 40.02690 N Lat, 109.64008 W Lon		9. API Well No. 43-047-50574
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 7 MILES SOUTHEAST OF OURAY, UTAH		10. Field and Pool, or Exploratory NATURAL BUTTES
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 429 FEET	16. No. of Acres in Lease 2091.00	11. Sec., T., R., M., or Blk. and Survey or Area Sec 23 T9S R20E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 900 FEET	19. Proposed Depth 10575 MD 10575 TVD	12. County or Parish UINTAH
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4835 GL	22. Approximate date work will start 08/03/2009	13. State UT
23. Estimated duration 60-90 DAYS		17. Spacing Unit dedicated to this well

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) DANIELLE E PIERNOT Ph: 720-929-6156	Date 07/15/2009
--	---	--------------------

Title
REGULATORY ANALYST

Approved by (Signature) 	Name (Printed/Typed) Stephanie J Howard	Date 12/18/07
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

NOTICE OF APPROVAL

RECEIVED

Electronic Submission #72216 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal
Completed to AFMSS for processing by GAIL JENKINS on 07/17/2009

JAN 25 2010

NOS apd posted 07/23/09

DIV. OF OIL, GAS & MINING

CONDITIONS OF APPROVAL ATTACHED

AFMSS#

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

09GXJ5377AE

NO NOS

4006m

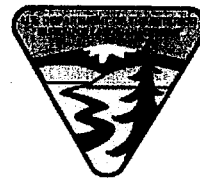


UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: KERR MCGEE OIL & GAS
Well No: NBU 920-23D
API No: 43-047-50574

Location: NWNW, Sec.23, T9S R20E
Lease No: UTU-0577A
Agreement: Natural Buttes Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COA's)***

Site-Specific Conditions of Approval:

- Paint New facilities "shadow gray."
- Use pit run/gravel on well pad/access road.
- Monitor location by a permitted archaeologist during the construction process.
- In accordance with the guidelines specified in the Utah BLM Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix D), a raptor survey should be conducted prior to construction of the proposed location, pipeline, or access road if construction would take place during raptor nesting season (January 01 through September 30) and conduct its operations according to specification in the guidelines.
- If project construction operation are scheduled to occur after June 15, 2010, KMG will conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation according to its specifications.

BIA Standard Conditions of Approval:

Soil erosion will be mitigated by reseeding all disturbed areas.

- The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.
- An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.
- The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.
- A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.
- Major low water crossings will be armored with pit run material to protect them from erosion.
- All personnel should refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.

- If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
- Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.
- Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.
- If project construction operations are scheduled to occur after December 31, 2009, KMG should conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix E) and conduct its operations according to applicable seasonal restrictions and spatial offsets.
- USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix E).
- All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
- If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- A formation integrity test shall be performed at the surface casing shoe.
- Gamma Ray Log shall be run from Total Depth to Surface.

Variances Granted

Air Drilling

- Dust suppression equipment. Variance granted for water mist system to substitute for the dust suppression equipment.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 75' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors.
- Straight run blooie line. Variance granted for targeted "T's" at bends.
- Automatic igniter. Variance granted for igniter due to water mist.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: KERR-McGEE OIL & GAS ONSHORE, L. P.

Well Name: NBU 920-23D

Api No: 43-047-50574 Lease Type: FEDERAL

Section 23 Township 09S Range 20E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

SPUDDED:

Date 02/09/2010

Time 9:00 AM

How DRY

Drilling will Commence: _____

Reported by JAMES GOBER

Telephone # (435) 828-7014

Date 02/09/2010 Signed CHD

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 0

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6100

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304750574	NBU 920-23D	NWNW	23	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
B	99999	2900	2/9/2010	2/18/10		
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL LOCATION ON 2/9/2010 AT 9:00 HRS.						

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304750575	NBU 920-15I	NESE	15	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
B	99999	2900	2/9/2010	2/18/10		
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL LOCATION ON 2/9/2010 AT 15:00 HRS.						

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
Comments:						

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED

FEB 10 2010

DIV. OF OIL, GAS & MINING

ANDY LYTLE

Name (Please Print)

Signature

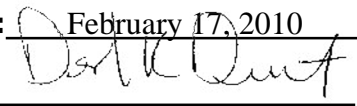
REGULATORY ANALYST

Title

2/10/2010

Date

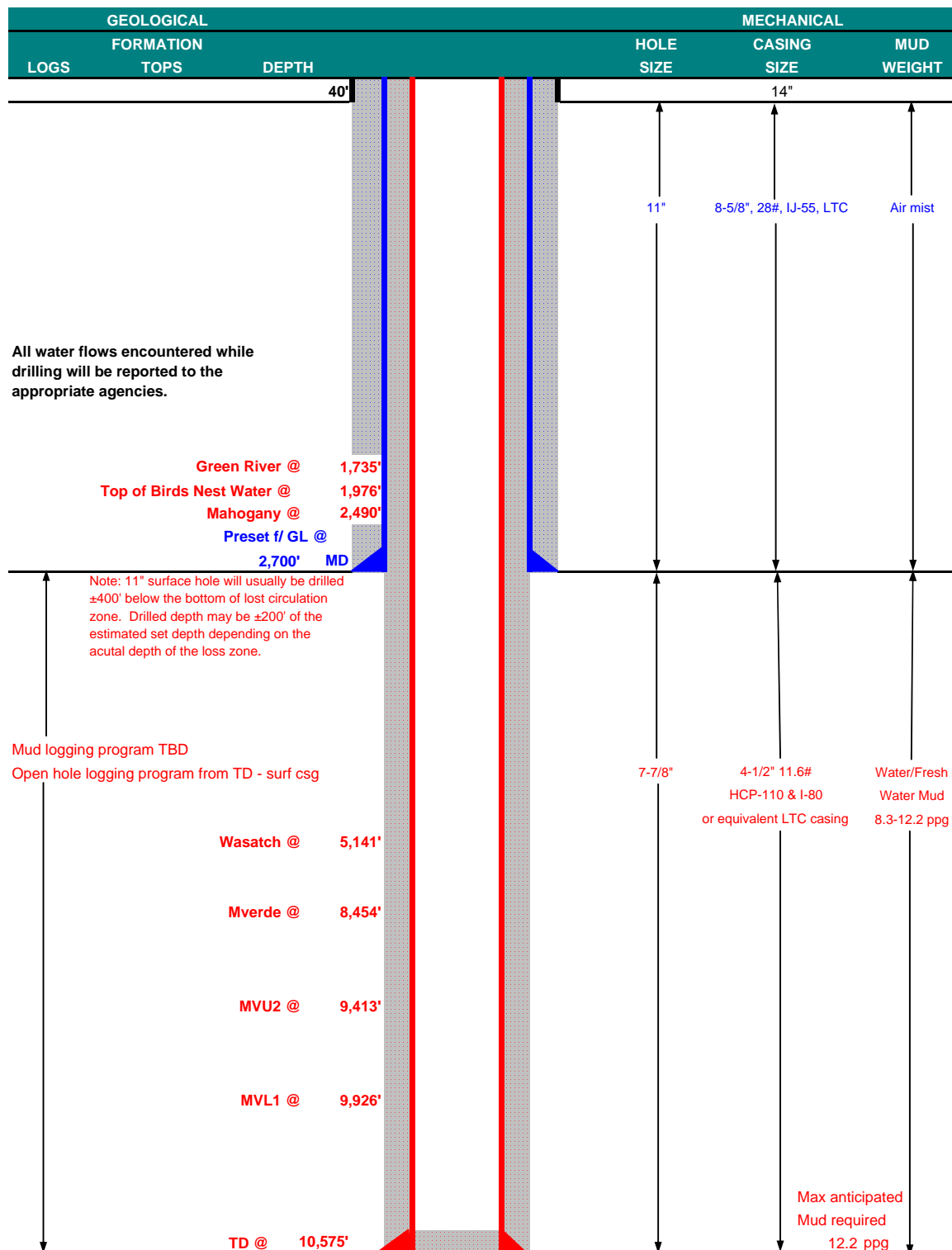
<div>STATE OF UTAH</div> <div>DEPARTMENT OF NATURAL RESOURCES</div> <div>DIVISION OF OIL, GAS, AND MINING</div>		<div>FORM 9</div> <div>5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A</div>	
<div>SUNDRY NOTICES AND REPORTS ON WELLS</div> <div>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.</div>		<div>6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr</div> <div>7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES</div>	
<div>1. TYPE OF WELL</div> <div>Gas Well</div>		<div>8. WELL NAME and NUMBER: NBU 920-23D</div>	
<div>2. NAME OF OPERATOR:</div> <div>KERR-MCGEE OIL & GAS ONSHORE, L.P.</div>		<div>9. API NUMBER: 43047505740000</div>	
<div>3. ADDRESS OF OPERATOR:</div> <div>P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779</div>		<div>PHONE NUMBER:</div> <div>720 929-6007 Ext</div>	<div>9. FIELD and POOL or WILDCAT:</div> <div>NATURAL BUTTES</div>
<div>4. LOCATION OF WELL</div> <div>FOOTAGES AT SURFACE: 0429 FNL 0967 FWL</div> <div>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 23 Township: 09.0S Range: 20.0E Meridian: S</div>		<div>COUNTY:</div> <div>UINTAH</div>	
		<div>STATE:</div> <div>UTAH</div>	
<div>11.</div> <div>CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</div>			
<div>TYPE OF SUBMISSION</div>		<div>TYPE OF ACTION</div>	
<div><input type="checkbox"/> NOTICE OF INTENT</div> <div>Approximate date work will start:</div> <div><input type="checkbox"/> SUBSEQUENT REPORT</div> <div>Date of Work Completion:</div> <div><input checked="" type="checkbox"/> SPUD REPORT</div> <div>Date of Spud: 2/9/2010</div> <div><input type="checkbox"/> DRILLING REPORT</div> <div>Report Date:</div>		<div><input type="checkbox"/> ACIDIZE</div> <div><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</div> <div><input type="checkbox"/> CHANGE WELL STATUS</div> <div><input type="checkbox"/> DEEPEN</div> <div><input type="checkbox"/> OPERATOR CHANGE</div> <div><input type="checkbox"/> PRODUCTION START OR RESUME</div> <div><input type="checkbox"/> REPERFORATE CURRENT FORMATION</div> <div><input type="checkbox"/> TUBING REPAIR</div> <div><input type="checkbox"/> WATER SHUTOFF</div> <div><input type="checkbox"/> WILDCAT WELL DETERMINATION</div> <div><input type="checkbox"/> ALTER CASING</div> <div><input type="checkbox"/> CHANGE TUBING</div> <div><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</div> <div><input type="checkbox"/> FRACTURE TREAT</div> <div><input type="checkbox"/> PLUG AND ABANDON</div> <div><input type="checkbox"/> RECLAMATION OF WELL SITE</div> <div><input type="checkbox"/> SIDETRACK TO REPAIR WELL</div> <div><input type="checkbox"/> VENT OR FLARE</div> <div><input type="checkbox"/> SI TA STATUS EXTENSION</div> <div><input type="checkbox"/> OTHER</div> <div><input type="checkbox"/> CASING REPAIR</div> <div><input type="checkbox"/> CHANGE WELL NAME</div> <div><input type="checkbox"/> CONVERT WELL TYPE</div> <div><input type="checkbox"/> NEW CONSTRUCTION</div> <div><input type="checkbox"/> PLUG BACK</div> <div><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</div> <div><input type="checkbox"/> TEMPORARY ABANDON</div> <div><input type="checkbox"/> WATER DISPOSAL</div> <div><input type="checkbox"/> APD EXTENSION</div> <div>OTHER: </div>	
<div>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</div> <div>MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.</div> <div>RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL</div> <div>LOCATION ON 2/9/2010 AT 09:00 HRS.</div> <div>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</div> <div>February 16, 2010</div>			
<div>NAME (PLEASE PRINT)</div> <div>Andy Lytle</div>		<div>PHONE NUMBER</div> <div>720 929-6100</div>	<div>TITLE</div> <div>Regulatory Analyst</div>
<div>SIGNATURE</div> <div>N/A</div>		<div>DATE</div> <div>2/10/2010</div>	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 920-23D
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0429 FNL 0967 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 23 Township: 09.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047505740000
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 2/12/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> ACIDIZE</div> <div style="width: 33%;"><input type="checkbox"/> ALTER CASING</div> <div style="width: 33%;"><input type="checkbox"/> CASING REPAIR</div> <div style="width: 33%;"><input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE TUBING</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE WELL NAME</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE WELL STATUS</div> <div style="width: 33%;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</div> <div style="width: 33%;"><input type="checkbox"/> CONVERT WELL TYPE</div> <div style="width: 33%;"><input type="checkbox"/> DEEPEN</div> <div style="width: 33%;"><input type="checkbox"/> FRACTURE TREAT</div> <div style="width: 33%;"><input type="checkbox"/> NEW CONSTRUCTION</div> <div style="width: 33%;"><input type="checkbox"/> OPERATOR CHANGE</div> <div style="width: 33%;"><input type="checkbox"/> PLUG AND ABANDON</div> <div style="width: 33%;"><input type="checkbox"/> PLUG BACK</div> <div style="width: 33%;"><input type="checkbox"/> PRODUCTION START OR RESUME</div> <div style="width: 33%;"><input type="checkbox"/> RECLAMATION OF WELL SITE</div> <div style="width: 33%;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</div> <div style="width: 33%;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</div> <div style="width: 33%;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</div> <div style="width: 33%;"><input type="checkbox"/> TEMPORARY ABANDON</div> <div style="width: 33%;"><input type="checkbox"/> TUBING REPAIR</div> <div style="width: 33%;"><input type="checkbox"/> VENT OR FLARE</div> <div style="width: 33%;"><input type="checkbox"/> WATER DISPOSAL</div> <div style="width: 33%;"><input type="checkbox"/> WATER SHUTOFF</div> <div style="width: 33%;"><input type="checkbox"/> SI TA STATUS EXTENSION</div> <div style="width: 33%;"><input type="checkbox"/> APD EXTENSION</div> <div style="width: 33%;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</div> <div style="width: 33%;"><input type="checkbox"/> OTHER</div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully requests to change the surface casing size for this well from FROM: 9-5/8" TO: 8-5/8". Additionally, Kerr-McGee requests to change the cement program for this well due to a revised drilling procedure. The production casing will still be cemented it's entire length to the surface. Please see the attached drilling program for additional details. All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining Date: February 17, 2010 By: 		
NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/11/2010	



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE February 11, 2010
 WELL NAME NBU 920-23D TD 10,575' MD/TVD
 FIELD Natural Buttes COUNTY Uintah STATE Utah FINISHED ELEVATION 4,832'
 SURFACE LOCATION NW/4 NW/4 429' FNL 967' FWL Sec 23 T 9S R 20E BHL Straight Hole
 Latitude: 40.026895 Longitude: -109.640075 NAD 83
 OBJECTIVE ZONE(S) Wasatch/Mesaverde
 ADDITIONAL INFO Regulatory Agencies: BLM (MINERALS), Ute Tribe (SURFACE), UDOGM, Tri-County Health Dept.





KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
SURFACE	8-5/8"	0 to 2700	28.00	IJ-55	LTC	3,390	1,880	348,000
						0.77*	1.49	4.60
PRODUCTION	4-1/2"	0 to 9600	11.60	I-80	LTC	7,780	6,350	201,000
						1.78	1.04	2.01
						10,690	8,650	279,000
		9600 to 10575	11.60	HCP-110	LTC	2.44	1.29	30.32

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 1.99

1) Max Anticipated Surf. Press. (MASP) (Surf Csg) = (Pore Pressure at next csg point - (0.22 psi/ft-partial evac grad x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.2 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing * Buoy. Fact. of water)

MASP 4,262 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.2 ppg)

0.62 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing * Buoy. Fact. of water)

MABHP 6,588 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	TAIL	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	260	0%	15.60	1.18
			+ 2% CaCl + 0.25 pps flocele				
			Premium cmt + 2% CaCl				
SURFACE Option 2	NOTE: If well will circulate water to surface, option 2 will be utilized						
	LEAD	2,200'	Prem cmt + 16% Gel + 10 pps gilsonite	200	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOC				
	TAIL	500	Premium cmt + 2% CaCl	150	35%	15.60	1.18
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,635'	Premium Lite II + 0.25 pps celloflake +	370	40%	11.00	3.38
			5 pps gilsonite + 10% gel ' + 1% Retarder				
	TAIL	5,940'	50/50 Poz/G + 10% salt + 2% gel	1450	40%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint for a total of 15 bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

John Huycke / Emile Goodwin

DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 920-23D
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0429 FNL 0967 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 23 Township: 09.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047505740000
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/13/2010	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER	
	OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. FINISHED DRILLING FROM 2770' TO 10,641' ON 4/11/2010. RAN 4-1/2" 11.6# I-80 PRODUCTION CSG. CEMENT 4 1/2" AS FOLLOWS: PUMP 40 BBL WATER. LEAD CMT W/545 SX CLASS G PREM LITE @ 12.3 PPG, 2.12 YIELD. TAILED CMT W/1262 SX CLASS G 50/50 POZ MIXED @ 14.3 PPG, 1.31 YIELD. WASH LINES, DROP PLUG & DISPLACE W/164 BBLs WATER W/ CLAYTREAT & MAGNACIDE TO BUMP PLUG W/4000, LIFT PSI 3300. HAD 14 BBL CEMENT TO SURFACE. FLUSH STACK, PACK OFF THE HANGER, CLEAN TANKS. RELEASE ENSIGN 145 RIG AT 06:00 HRS ON 4/13/2010.		
<div style="text-align: right;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 13, 2010 </div>		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 4/13/2010		

<div>STATE OF UTAH</div> <div>DEPARTMENT OF NATURAL RESOURCES</div> <div>DIVISION OF OIL, GAS, AND MINING</div>		<div>FORM 9</div> <div>5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A</div>	
<div>SUNDRY NOTICES AND REPORTS ON WELLS</div> <div>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.</div>		<div>6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr</div> <div>7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES</div>	
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<div>3. ADDRESS OF OPERATOR:</div> <div>P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779</div>		<div>PHONE NUMBER:</div> <div>720 929-6007 Ext</div>	<div>9. FIELD and POOL or WILDCAT:</div> <div>NATURAL BUTTES</div>
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		<div>STATE:</div> <div>UTAH</div>	
<div>11.</div> <div>CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</div>			
<div>TYPE OF SUBMISSION</div>		<div>TYPE OF ACTION</div>	
<div><input type="checkbox"/> NOTICE OF INTENT</div> <div>Approximate date work will start:</div> <div><input type="checkbox"/> SUBSEQUENT REPORT</div> <div>Date of Work Completion:</div> <div><input type="checkbox"/> SPUD REPORT</div> <div>Date of Spud:</div> <div><input checked="" type="checkbox"/> DRILLING REPORT</div> <div>Report Date: 5/5/2010</div>		<div><input type="checkbox"/> ACIDIZE</div> <div><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</div> <div><input type="checkbox"/> CHANGE WELL STATUS</div> <div><input type="checkbox"/> DEEPEN</div> <div><input type="checkbox"/> OPERATOR CHANGE</div> <div><input checked="" type="checkbox"/> PRODUCTION START OR RESUME</div> <div><input type="checkbox"/> REPERFORATE CURRENT FORMATION</div> <div><input type="checkbox"/> TUBING REPAIR</div> <div><input type="checkbox"/> WATER SHUTOFF</div> <div><input type="checkbox"/> WILDCAT WELL DETERMINATION</div> <div><input type="checkbox"/> ALTER CASING</div> <div><input type="checkbox"/> CHANGE TUBING</div> <div><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</div> <div><input type="checkbox"/> FRACTURE TREAT</div> <div><input type="checkbox"/> PLUG AND ABANDON</div> <div><input type="checkbox"/> RECLAMATION OF WELL SITE</div> <div><input type="checkbox"/> SIDETRACK TO REPAIR WELL</div> <div><input type="checkbox"/> VENT OR FLARE</div> <div><input type="checkbox"/> SI TA STATUS EXTENSION</div> <div><input type="checkbox"/> OTHER</div> <div><input type="checkbox"/> CASING REPAIR</div> <div><input type="checkbox"/> CHANGE WELL NAME</div> <div><input type="checkbox"/> CONVERT WELL TYPE</div> <div><input type="checkbox"/> NEW CONSTRUCTION</div> <div><input type="checkbox"/> PLUG BACK</div> <div><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</div> <div><input type="checkbox"/> TEMPORARY ABANDON</div> <div><input type="checkbox"/> WATER DISPOSAL</div> <div><input type="checkbox"/> APD EXTENSION</div> <div>OTHER: </div>	
<div>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</div> <div>THE SUBJECT WELL WAS PLACED ON PRODUCTION ON MAY 1, 2010 AT 12:00 P.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.</div> <div>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 04, 2010</div>			
<div>NAME (PLEASE PRINT)</div> <div>Andy Lytle</div>		<div>PHONE NUMBER</div> <div>720 929-6100</div>	<div>TITLE</div> <div>Regulatory Analyst</div>
<div>SIGNATURE</div> <div>N/A</div>		<div>DATE</div> <div>5/3/2010</div>	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A
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<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/2/2010	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
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	<input type="checkbox"/> APD EXTENSION	
	OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PROPETRO AIR RIG ON 02/23/2010. DRILLED 11" SURFACE HOLE TO 2770'. RAN 8 5/8" 28# J-55 SURFACE CASING. TEST LINES TO 2000 PSI. PUMP 130 BBLS OF H2O. PUMP 20 BBLS OF GEL WATER. PUMP 250 SX OF 11.0 PPG, 3.82 YIELD CLASS G HI FILL LEAD CEMENT. PUMP 200 SX OF 11.0 PPG, 1.15 YIELD CLASS G PREMIUM LITE TAIL CEMENT. DROP PLUG ON FLY AND DISPLACE W/ 169 BBLS OF H2O. 15 BBLS TO SURFACE W/ 490 PSI OF LIFT. LAND PLUG 1000 PSI AND CHECK FLOAT. FLOAT HELD. PUMP 125 SX OF CLASS G 15.8 PPG, 1.15 YIELD PREMIUM LITE TOP OUT CEMENT. WORT.		
<div style="text-align: right;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 02, 2010 </div>		
NAME (PLEASE PRINT) Laura Gianakos	PHONE NUMBER 307 752-1169	TITLE Regulatory Affairs Supervisor
SIGNATURE N/A	DATE 3/2/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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<div style="text-align: right;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 13, 2010 </div>		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 4/13/2010		

<div>STATE OF UTAH</div> <div>DEPARTMENT OF NATURAL RESOURCES</div> <div>DIVISION OF OIL, GAS, AND MINING</div>		<div>FORM 9</div> <div>5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A</div>	
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<div>NAME (PLEASE PRINT)</div> <div>Andy Lytle</div>		<div>PHONE NUMBER</div> <div>720 929-6100</div>	<div>TITLE</div> <div>Regulatory Analyst</div>
<div>SIGNATURE</div> <div>N/A</div>		<div>DATE</div> <div>5/3/2010</div>	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. UTU0577A	
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Dr. Resvr. Other _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator KERR-MCGEE OIL&GAS ONSHORE		7. Unit or CA Agreement Name and No. UTU63047A	
Contact: ANDY LYTLE Email: andrew.lytle@anadarko.com		8. Lease Name and Well No. NBU 920-23D	
3. Address P.O. BOX 173779 DENVER, CO 80217		9. API Well No. 43-047-50574	
3a. Phone No. (include area code) Ph: 720-929-6100		10. Field and Pool, or Exploratory NATURAL BUTTES	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWNW 429FNL 967FWL 40.02690 N Lat, 109.64008 W Lon At top prod interval reported below NWNW 429FNL 967FWL 40.02690 N Lat, 109.64008 W Lon At total depth 634 FNL 967FWL <u>990 FNL</u> 40.02690 N Lat, 109.64008 W Lon		11. Sec., T., R., M., or Block and Survey or Area Sec 23 T9S R20E Mer SLB	
14. Date Spudded 02/09/2010		15. Date T.D. Reached 04/11/2010	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 05/01/2010		17. Elevations (DF, KB, RT, GL)* 4835 GL	
18. Total Depth: MD 10641 TVD 10638		19. Plug Back T.D.: MD 10538 TVD 10500	
20. Depth Bridge Plug Set: MD TVD 10535		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <input checked="" type="checkbox"/> ACOUSTIC CBL-GR-SDL/DSN/ACTR, N/A	
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)			

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
11.000	8.625 IJ55	28.0		2746		575			
7.875	4.500 I80	11.6		10626		1807			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	9914							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	7624	8128	7624 TO 8128	0.360	78	OPEN
B) MESAVERDE	8964	10494	8964 TO 10494	0.360	200	OPEN
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7624 TO 8128	PMP 2,114 BBLS SLICK H2O & 96,494 LBS 30/50 SD.
8964 TO 10494	PMP 5,490 BBLS SLICK H2O & 199,849 LBS 30/50 SD.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/01/2010	05/03/2010	24	→	0.0	2177.0	552.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 1625	2500.0	→	0	2177	552		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #87145 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED

RECEIVED
JUN 02 2010
DIV. OF OIL, GAS & MINING

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	1749				
BIRD'S NEST	1873				
MAHOGANY	2489				
WASATCH	5143	8357			
MESAVERDE	8386	10641	TD		

32. Additional remarks (include plugging procedure):

ATTACHED IS THE CHRONOLOGICAL WELL HISTORY AND FINAL SURVEY.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #87145 Verified by the BLM Well Information System.
For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal

Name (please print) ANDY LYTLETitle REGULATORY ANALYSTSignature  (Electronic Submission)Date 05/28/2010

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 920-23D	Wellbore No.	OH
Well Name	NBU 920-23D	Common Name	NBU 920-23D
Project	UTAH-UINTAH	Site	NBU 920-23D
Vertical Section Azimuth	0.00 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	2/24/2010	UWI	NW/NW/0/9/S/20/E/23/0/0/6/PM/N/429.00/W/0/967.00/0/0
Active Datum	RKB @4,848.00ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	PRP PETRO
Started	2/23/2010	Ended	3/30/2010
Tool Name	TOT	Engineer	Anadarko

2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
0.00	0.00	0.00	0.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	BuId (°/100ft)	Turn (°/100ft)	TFace (°)
2/23/2010	Tie On	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/23/2010	NORMAL	479.00	0.20	292.90	479.00	0.33	-0.77	0.33	0.04	0.04	0.00	292.90
2/24/2010	NORMAL	1,029.00	0.40	4.00	1,028.99	2.61	-1.52	2.61	0.07	0.04	12.93	100.54
	NORMAL	1,509.00	1.00	134.00	1,508.97	1.38	1.61	1.38	0.27	0.13	27.08	143.70
	NORMAL	1,989.00	0.90	279.00	1,988.94	-0.94	0.90	-0.94	0.38	-0.02	30.21	163.45
2/25/2010	NORMAL	2,725.00	1.70	189.70	2,724.81	-10.80	-6.65	-10.80	0.26	0.11	-12.13	-117.34

2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	EXTREME
Started	3/31/2010	Ended	
Tool Name	EM	Engineer	Anadarko

2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
2,725.00	1.70	189.70	2,724.81	-10.80	-6.65

2.2.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
3/31/2010	Tie On	2,725.00	1.70	189.70	2,724.81	-10.80	-6.65	-10.80	0.00	0.00	0.00	0.00
4/2/2010	NORMAL	2,956.00	2.29	175.48	2,955.67	-18.78	-6.86	-18.78	0.33	0.26	-6.16	-47.25
	NORMAL	3,500.00	0.97	157.81	3,499.44	-33.88	-4.27	-33.88	0.26	-0.24	-3.25	-167.83
4/3/2010	NORMAL	4,496.00	1.76	204.84	4,495.17	-55.57	-7.51	-55.57	0.13	0.08	4.72	79.88
	NORMAL	4,994.00	1.67	184.97	4,992.96	-69.74	-11.35	-69.74	0.12	-0.02	-3.99	-108.45
	NORMAL	5,493.00	1.14	165.20	5,491.81	-81.78	-10.71	-81.78	0.14	-0.11	-3.96	-147.15
4/4/2010	NORMAL	6,036.00	1.67	160.36	6,034.64	-94.45	-6.67	-94.45	0.10	0.10	-0.89	-15.05
	NORMAL	6,535.00	1.41	160.01	6,533.46	-107.07	-2.13	-107.07	0.05	-0.05	-0.07	-178.10
	NORMAL	7,033.00	1.67	170.73	7,031.28	-119.99	1.13	-119.99	0.08	0.05	2.15	53.38
	NORMAL	7,531.00	1.41	165.46	7,529.10	-133.08	3.84	-133.08	0.06	-0.05	-1.06	-154.04
4/5/2010	NORMAL	8,053.00	1.67	168.62	8,050.91	-146.76	6.95	-146.76	0.05	0.05	0.61	19.67
4/6/2010	NORMAL	8,528.00	1.14	165.04	8,525.77	-158.11	9.54	-158.11	0.11	-0.11	-0.75	-172.38
	NORMAL	8,968.00	1.32	185.06	8,965.67	-167.38	10.22	-167.38	0.11	0.04	4.55	77.49
4/11/2010	NORMAL	10,611.00	1.60	143.30	10,608.18	-204.63	22.26	-204.63	0.07	0.02	-2.54	-96.76
	NORMAL	10,641.00	1.60	143.30	10,638.17	-205.30	22.76	-205.30	0.00	0.00	0.00	0.00

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-23D			Spud Conductor: 2/9/2010				Spud Date: 2/24/2010		
Project: UTAH-UINTAH			Site: NBU 920-23D				Rig Name No: PROPETRO/, ENSIGN 145/145		
Event: DRILLING			Start Date: 2/23/2010				End Date: 4/13/2010		
Active Datum: RKB @4,848.00ft (above Mean Sea Leve			UWI: NW/NW/0/9/S/20/E/23/0/0/6/PM/N/429.00/W/0/967.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
2/23/2010	6:00 - 20:00	14.00	MIRU	01	A	P		MOVE RIG TO NBU 920-23D	
	20:00 - 0:00	4.00	MIRU	02	B	P		DRILL F/ 40' - 510' WOB 20 ROT 40 MUD MOTOR 104 DHR 144 GPM 650 NO LOSSES PU/DN/ROT 23/23/23 SPUD WELL 2-23-2010 @ 2000	
2/24/2010	0:00 - 2:30	2.50	DRLSUR	02	B	P		DRILL F/ 510' - 810' WOB 20 ROT 40 MUD MOTOR 104 DHR 144 GPM 650 NO LOSSES PU/DN/ROT 30/30/30	
	2:30 - 4:00	1.50	DRLSUR	08	B	Z		WORK ON MUD PUMP	
	4:00 - 17:00	13.00	DRLSUR	02	B	P		DRILL F/ 810' - 2040' WOB 20 ROT 40 MUD MOTOR 104 DHR 144 GPM 650 NO LOSSES PU/DN/ROT 30/30/30 SURVEY 1020' .4/4 1500' 1/134 1980' .9/275	
2/25/2010	17:00 - 0:00	7.00	DRLSUR	08	B	Z		MUD PUMP DOWN, CONTROL BOX MALFUNCTION	
	0:00 - 2:00	2.00	DRLSUR	08	A	Z		MUD PUMP DOWN CONTROL PANEL MALFUNCTION	
	2:00 - 12:00	10.00	DRLSUR	02	B	P		DRILL F/ 2040' - 2770' T.D. 2-25-2010 @1200 WOB 20 ROT 40 MUD MOTOR 104 DHR 144 GPM 650 NO LOSSES PU/DN/ROT 62/62/62	
	12:00 - 14:00	2.00	DRLSUR	05	A	P		CIRCULATE AND CONDITION MUD, RUN SURVEY @ 2716' 1.7/189.7	
	14:00 - 19:00	5.00	DRLSUR	06	A	P		LDDS	
	19:00 - 19:30	0.50	DRLSUR	12	A	P		RIG UP TO RUN CASING	
	19:30 - 23:30	4.00	DRLSUR	12	C	P		RUN 62 JTS 8.625 32# J-55 8RD-LTC CASING SHOE AT 2736' BAFFEL AT 2692.2	
	23:30 - 0:00	0.50	DRLSUR	12	B	P		RIG UP CEMENTERS RELEASE RIG 11:59 2-25-2010 TEST LINES TO 2000' PSI, PUMP 130 BBLs OF H2O , PUMP 20 BBLs OF GEL WATER. PUMP 250 (170 BBLs) SX OF 11#, 3.82 YD, 23 GAL SX HI FILL LEAD CEMENT. PUMP 200 SX (135 BBLs) OF 15.8#, 1.15 YD, 5 GAL/SK TAIL CEMENT, DROP PLUG ON FLY AND DISPLACE W/ 165 BBLs OF 8.3# H2O, 15BBLs OF LEAD TO SURFACE W/ 490 PSI OF LIFT @ 5 BBLs/MIN. W/ LAND PLUG 1000 PSI AND CHECK FLOAT. FLOAT HELD. PUMP 125 SX (15.1 BBLs) OF 4% CALC 15.8# 1.15 YD, 5 GAL/SK CEMENT DOWN 1". FILL TO SURFACE. BUMPED PLUG 2-26-2010 @ 02:30 FINISH JOB AT 04:00	
3/30/2010	8:00 - 0:00	16.00	DRLPRO	01	B	P		RD, MOVE CAMPS & PIPE TUBS	
3/31/2010	0:00 - 7:00	7.00	RDMO	01	A	P		WAIT ON DAYLIGHT. RDRT AND PREPARE RIG TO MOVE THIS AM.	
	7:00 - 16:00	9.00	MIRU	01	A	P		MOVE DERRICK, SUB, & BACKYARD TO LOCATION. SET DERRICK WITH JC CRANE DUE TO SHORT LOCATION. RELEASED THE JONES TRUCKS AT 16:00 HRS.	
	16:00 - 18:00	2.00	MIRU	01	A	P		RURT. HOOK UP AIR, ELECTRICAL, WATER, STEAM ETC.	
	18:00 - 19:00	1.00	MIRU	01	A	P		HOOK UP, BLEED DERRICK RAMS, INSPECT DERRICK PRIOR TO RAISING.	
	19:00 - 0:00	5.00	MIRU	08	A	Z		IVECO WILL NOT RAISE DERRICK. RAMS EXTEND 5' AND BLEED BACK OFF. TROUBLE SHOOT PROBLEM.	
	4/1/2010	0:00 - 13:00	13.00	MIRU	08	A	Z		IVECO WILL NOT RAISE DERRICK. RAMS EXTEND 5' AND BLEED BACK OFF. TROUBLE SHOOT PROBLEM.

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-23D		Spud Conductor: 2/9/2010		Spud Date: 2/24/2010	
Project: UTAH-UINTAH		Site: NBU 920-23D			Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING		Start Date: 2/23/2010		End Date: 4/13/2010	
Active Datum: RKB @4,848.00ft (above Mean Sea Leve) UWI: NW/NW/0/9/S/20/E/23/0/0/6/PM/N/429.00/W/0/967.00/0/0					

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/2/2010	13:00 - 20:00	7.00	MIRU	01	A	P		RAISE DERRICK, SLIP DRILL LINE ONTO DRUM, SET IDM, LOWER BLOCKS AND HOOK UP BECKET. SET CAT WALK, RU FLOOR. NU CHOKE LINE, CHARGE ACCUMULATOR, CHANGE OIL IN TOP DRIVE.
	20:00 - 0:00	4.00	MIRU	15	A	P		TEST BLIND RAMS, PIPE RAMS, FLOOR VALVES, CHOKE AND ALL RELATED VALVES TO 250 AND 5000 PSI. TEST HYDRIL TO 250 AND 2500 PSI. TEST CSG TO 1500 PSI FOR 30 MINUTES.
	0:00 - 0:30	0.50	MIRU	15	A	P		FINISH TESTING BOP'S, SET THE WEAR BUSHING.
	0:30 - 6:00	5.50	DRLPRO	06	A	P		PU BHA, Q506F, .208 RPG, 1.5 DEG BH MM, MONEL, MWD. MONEL, 6 DC'S, 18 HWDP, TIH WITH SAME.
	6:00 - 8:00	2.00	DRLPRO	02	F	P		DRILL SHOE TRACK.
	8:00 - 13:30	5.50	DRLPRO	02	B	P		DRILL 2779'-3278' (499') 90.7'/HR. WOB-15-20, SPP-1350-1850, GPM-490, BIT RPM 140, MOTOR RPM-104 , DIF- 200-300, MW-9.8, VIS-32
	13:30 - 14:00	0.50	DRLPRO	07	A	P		SERVICE RIG
	14:00 - 14:30	0.50	DRLPRO	02	B	P		DRILL 3278'-3323' (45') 88'/HR. WOB-15-20, SPP-1350-1850, GPM- 490, BIT RPM 140, MOTOR RPM-104 , DIF- 200-300, MW-9.8, VIS-32
	14:30 - 18:00	3.50	DRLPRO	06	G	Z		LOST 600 PSI PUMP PSI, CHECK SURFACE EQUIPMENT. POOH WITH A WET STRING
								LOOKING FOR WASH OUT. FOUND WASHED OUT LOCKING SCREW IN THE GAP SUB. LAY DOWN SAME.
	18:00 - 21:00	3.00	DRLPRO	06	G	Z		WAIT ON EXTREME. CHANGE OUT THE GAP SUB, REPROGRAM EM TOOL. INSTALL EM TOOL AND SCRIBE THE MOTOR.
	21:00 - 23:30	2.50	DRLPRO	06	G	Z		TRIP IN THE HOLE.
	23:30 - 0:00	0.50	DRLPRO	02	B	P		DRILL 3323'-3368' (45') 90'/HR. WOB-15-20, SPP-1700-2100, GPM- 490, BIT RPM 140, MOTOR RPM-104 , DIF- 200-300, MW-9.8, VIS-32
								DRILL 3368'-4818' (1450') 111.5'/HR. WOB-15-20, SPP-1700-2100, GPM- 490, BIT RPM 140, MOTOR RPM-104 , DIF- 200-400, MW-9.8, VIS-32
4/3/2010	0:00 - 13:00	13.00	DRLPRO	02	B	P		RIG SERVICE
	13:00 - 13:30	0.50	DRLPRO	07	A	P		DRILL 4818'-5895' (1077') 102.57'/HR. WOB-15-20, SPP-2200-2600, GPM- 490, BIT RPM 140, MOTOR RPM-104 , DIF- 200-400, MW-10.0, VIS-38
	13:30 - 0:00	10.50	DRLPRO	02	B	P		DRILL 5895'-6766' (871') 79.1'/HR. WOB-15-20, SPP-2200-2600, GPM- 490, BIT RPM 140, MOTOR RPM-104 , DIF- 200-400, MW-10.2, VIS-38. LOST 60 BBLS MUD @ 6559', SWEEP W/ LCM PILL TO REGAIN FULL RETURNS.
4/4/2010	0:00 - 11:00	11.00	DRLPRO	02	B	P		RIG SERVICE
	11:00 - 11:30	0.50	DRLPRO	07	A	P		DRILL 6766'-7462' (696') 55.6'/HR. WOB-15-20, SPP-2200-2600, GPM- 490, BIT RPM 140, MOTOR RPM-104 , DIF- 200-400, MW-10.2, VIS-38
	11:30 - 0:00	12.50	DRLPRO	02	B	P		DRILL 7462'-7989' (527') 42.1'/HR. WOB-15-20, SPP-2300-2650, GPM- 490, BIT RPM 140, MOTOR RPM-104 , DIF- 200-350, MW-10.9, VIS-38
4/5/2010	0:00 - 12:30	12.50	DRLPRO	02	B	P		RIG SERVICE
	12:30 - 13:00	0.50	DRLPRO	07	A	P		DRILL 7989'-8360' (371') 33.7 '/HR. WOB-15-20, SPP-2450-2750, GPM- 490, BIT RPM 140, MOTOR RPM-104 , DIF- 200-300, MW-11.2, VIS-43
	13:00 - 0:00	11.00	DRLPRO	02	B	P		DRILL 8360'-8712' (352') 33.5 '/HR. WOB-18-24, SPP-2450-2750, GPM- 460, BIT RPM 140, MOTOR RPM-96 , DIF- 200-300, MW-11.6, VIS-43
4/6/2010	0:00 - 10:30	10.50	DRLPRO	02	B	P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-23D	Spud Conductor: 2/9/2010	Spud Date: 2/24/2010
Project: UTAH-UINTAH	Site: NBU 920-23D	Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING	Start Date: 2/23/2010	End Date: 4/13/2010
Active Datum: RKB @4,848.00ft (above Mean Sea Level) UWI: NW/NW/0/9/S/20/E/23/0/0/6/PM/N/429.00/W/0/967.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/7/2010	10:30 - 12:00	1.50	DRLPRO	05	A	X		LOST FULL RETURNS. SHUT PUMPS DOWN AND LET HOLE HEAL WHILE MIXING LCM TO 5% IN THE PITS. CIRC. LCM AT SPR, CIRCULATE W. FULL RETURNS. LOST TOTAL OF 34 BBLS MUD.
	12:00 - 13:30	1.50	DRLPRO	02	B	P		DRILL 8712'-8752' (40') 26.6'/HR. WOB-18-24, SPP-2650-2950, GPM- 460, BIT RPM 140, MOTOR RPM-96 , DIF- 200-300, MW-11.9, VIS-43, LCM 5% RIG SERVICE
	13:30 - 14:00	0.50	DRLPRO	07	A	P		
	14:00 - 0:00	10.00	DRLPRO	02	B	P		DRILL 8752'-9079' (327') 32.7'/HR. WOB-18-24, SPP-2650-2950, GPM- 460, BIT RPM 140, MOTOR RPM-96 , DIF- 100-250, MW-12.2, VIS-43, LCM 6% DRILL 9079'-9256' (177') 29.5'/HR. WOB-18-24, SPP-2650-2950, GPM- 460, BIT RPM 140, MOTOR RPM-96 , DIF- 100-250, MW-12.2, VIS-43, LCM 6%
	0:00 - 6:00	6.00	DRLPRO	02	B	P		CIRCULATE BOTTOMS UP, MIX AND PUMP A SLUG.
	6:00 - 7:00	1.00	DRLPRO	05	C	P		POOH, WASH AND REAM THROUGH TIGHT SPOTS AT 6231'-6200', 5128'-4800', 4563'-4480' AND 3922', INCREASE LCM TO 10% DUE TO 100 BBLS LOSS WHILE REAMING. MIX AND PUMP A SLUG.
	7:00 - 17:00	10.00	DRLPRO	06	A	P		POOH. LKD MOTOR, BIT AND STAB. FUNCTION BLIND RAMS.
4/8/2010	17:00 - 0:00	7.00	DRLPRO	06	A	P		MAKE UP Q506F PDC ON 1 1/2 DEG, .16 RPG MTR AND BHA. SCRIBE SAME. TIH REAM TIGHT HOLE 4478'-5051', MW 12.4, VIS 40, LCM 12%
	0:00 - 8:00	8.00	DRLPRO	06	A	P		TIH, REAM TIGHT SPOTS FROM 5051', 5152'-5208', 5800'-5918', 5921'-6006', 6040'-6097', 6624', 7276'-7344', 7580'-7618', FIH. REAM 65' TO BOTTOM.
	8:00 - 11:30	3.50	DRLPRO	02	B	P		DRILL 9256'-9331' (75') 21.4'/HR. WOB-18-24, SPP-2650-2950, GPM- 407, BIT RPM 110, MOTOR RPM-65 , DIF- 20-500, MW-12.5, VIS-43, LCM 9%
	11:30 - 12:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	12:00 - 21:00	9.00	DRLPRO	02	B	P		DRILL 9331'-9497' (166') 18.4'/HR. WOB-18-24, SPP OFF-2150-2450, ON BTM 2450-2500 GPM-420, BIT RPM 67, MOTOR RPM-73 , DIF- 50-250, MW-12.5, VIS-43, LCM 9%.
	21:00 - 21:30	0.50	DRLPRO	05	C	P		CIRCULATE BOTTOM UP, MIX AND PUMP A SLUG.
	21:30 - 0:00	2.50	DRLPRO	06	A	P		PULL OUT OF THE HOLE TO INSPECT BIT AND MOTOR DUE TO SLOW P-RATE AND ERATIC OFF BOTTOM PSI SWINGS FROM 2100 TO 2500 PSI @ 407 GPM AND 2650 TO 3300 PSI @ 460 GPM.
4/9/2010	0:00 - 5:30	5.50	DRLPRO	06	A	P		FINISH POOH, LD EM TOOL, MOTOR AND BIT. NO VISIBLE DAMAGE TO MOTOR OR BIT.
	5:30 - 14:30	9.00	DRLPRO	06	A	P		PU NEW Q506F, NEW 1.5 DEG, .16 RPG MOTOR AND TIH WITH SAME. WASH THROUGH TIGHT SPOT AT 8336'. FIH. W/R 80' TO BOTTOM.
	14:30 - 20:00	5.50	DRLPRO	02	B	P		DRILL 9497'-9598' (101') 18.3'/HR. WOB-18-24, SPP 2400-2700, 450 GPM-420, BIT RPM 112, MOTOR RPM-67 , DIF- 50-350, MW-12.6, VIS-43, LCM 9%.
	20:00 - 20:30	0.50	DRLPRO	07	A	P		RESET PECO COM'S, MAKE CONNECTION.
	20:30 - 0:00	3.50	DRLPRO	02	B	P		DRILL 9598'-9711' (113') 32.2'/HR. WOB-18-24, SPP 2400-2700, 450 GPM-420, BIT RPM 112, MOTOR RPM-67 , DIF- 200-400, MW-12.4, VIS-43, LCM 9%.
	0:00 - 7:00	7.00	DRLPRO	02	B	P		DRILL 9711'-9912' (201') 28.7'/HR. WOB-18-24, SPP 2400-2700, 450 GPM-420, BIT RPM 112, MOTOR RPM-67 , DIF- 200-400, MW-12.5, VIS-43, LCM 9%.
	7:00 - 7:30	0.50	DRLPRO	23	A	P		RESET PECO C.O.M.S. ZERO BIT WT. DIFF PSI, TAKE SPR.

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-23D			Spud Conductor: 2/9/2010				Spud Date: 2/24/2010		
Project: UTAH-UINTAH			Site: NBU 920-23D				Rig Name No: PROPETRO/, ENSIGN 145/145		
Event: DRILLING			Start Date: 2/23/2010				End Date: 4/13/2010		
Active Datum: RKB @4,848.00ft (above Mean Sea Leve			UWI: NW/NW/0/9/S/20/E/23/0/0/6/PM/N/429.00/W/0/967.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
4/11/2010	7:30 - 12:30	5.00	DRLPRO	02	B	P		DRILL 9912'-10048' (136') 27.2'/HR. WOB-18-24, SPF 2400-2700, 420 GPM-420, BIT RPM 112, MOTOR RPM-67 , DIF- 50-400, MW-12.4, VIS-43, LCM 7%. RIG SERVICE	
	12:30 - 13:00	0.50	DRLPRO	07	A	P			
	13:00 - 18:00	5.00	DRLPRO	02	B	P		DRILL 10048'-10175' (127') 25.4'/HR. WOB-18-24, SPP 2400-2700, 450 GPM-420, BIT RPM 112, MOTOR RPM-67 , DIF- 50-300, MW-12.3, VIS-43, LCM 7%.	
	18:00 - 18:30	0.50	DRLPRO	23	A	P		RESET PECO C.O.M.S. ZERO BIT WT. DIFF PSI, TAKE SPR.	
	18:30 - 0:00	5.50	DRLPRO	02	B	P		DRILL 10175'-10310' (135') 24.5'/HR. WOB-22-26, SPP 2250-2600, 450 GPM-420, BIT RPM 112, MOTOR RPM-67 , DIF- 50-350, MW-12.2, VIS-43, LCM 7%.	
	0:00 - 11:30	11.50	DRLPRO	02	B	P		DRILL 10310'-10641' (331') 28.7'/HR. WOB-22-26, SPP 2250-2600, 450 GPM-420, BIT RPM 112, MOTOR RPM-67 , DIF- 50-350, MW-12.4, VIS-46, LCM 7%.	
	11:30 - 12:00	0.50	DRLPRO	05	C	P		RIG SERVICE	
	12:00 - 13:00	1.00	DRLPRO	05	C	P		CIRCULATE BOTTOMS UP WITH HIGH VIS SWEEP @ 14.0 PPG.	
	13:00 - 16:00	3.00	DRLPRO	06	E	P		SHORT TRIP 20 STANDS.	
	16:00 - 18:30	2.50	DRLPRO	05	C	P		CIRCULATE BOTTOMS UP TWICE, DROP SINGLE SHOT SURVEY, LET FALL, TAKE SURVEY, PUMP A SLUG.	
4/12/2010	18:30 - 0:00	5.50	DRLPRO	06	A	P		POOH LAYING DOWN THE DRILL SRTING.	
	0:00 - 4:30	4.50	DRLPRO	06	A	P		POOH LDDS	
	4:30 - 5:00	0.50	DRLPRO	14	B	P		PULL THE WEAR BUSHING.	
	5:00 - 11:00	6.00	DRLPRO	11	D	P		HELD SAFETY MEETING WITH HALLIBURTON, RU AND RIH WITH TRIPLE COMBO AND BRIDGED OUT AT 6846', LOG OUT 6846' TO SHOE, RAN GR TO SURFACE.	
	11:00 - 12:00	1.00	DRLPRO	12	A	P		HELD SAFETY MEETING WITH WEATHERFORD, RU CASING CREW.	
	12:00 - 19:30	7.50	DRLPRO	12	C	P		RUN CSG. AS FOLLOWS: FLOAT SHOE, 1 JT. CSG. FLOAT COLLAR, 24 JTS. P-110 LTC, CSG. 8' XO, 106 JTS. I-80 BTC, MARKER JT. SET AT 5112', 121 JTS. 4 1/2" 11.6 PPF I-80 BTC CSG. OAL 10626, SET AT 10626. CENTRALIZED WITH 15 BOW SPRINGS, 1 ON FIRST 3 JTS. THEN EVERY 3RD JT. INSTALL HANGER AND LAND CSG.	
	19:30 - 21:30	2.00	DRLPRO	05	D	P		INSTALL PLUG RETAINER, CIRCULATE BOTTOMS UP WITH RIG PUMP. HELD SAFETY MEETING WITH BJ.	
	21:30 - 0:00	2.50	DRLPRO	12	E	P		SWITCH TO BJ, TEST LINES TO 5000 CEMENT 4 1/2" AS FOLLOWS: 40 BBLS WATER, LEAD W/ 545 SKS PL2 MIXED @ 12.3 PPG, YIELD 2.12, TAIL W/ 1262 SKS 50:50 POZ MIXED @ 14.3PPG, YIELD 1.31, WASH LINES, DROP PLUG & DISPLACE W/164 BBLS WATER W/ CLAYTREAT & MAGNACIDE TO BUMP PLUG W/ 4000, LIFT PSI 3300. HAD 14 BBL CEMENT TO SURFACE.	
	0:00 - 1:00	1.00	CSG	14	A	P		FLUSH BOP STACK, REMOVE SETTING TOOL, PACK OFF WELL HEAD.	
	1:00 - 6:00	5.00	CSG	14	A	P		CLEAN THE MUD TANKS, RELEASE THE RIG AT 06:00, 4-13-2010	

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-23D	Spud Conductor: 2/9/2010	Spud Date: 2/24/2010
Project: UTAH-UINTAH	Site: NBU 920-23D	Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING	Start Date: 2/23/2010	End Date: 4/13/2010
Active Datum: RKB @4,848.00ft (above Mean Sea Leve UWI: NW/NW/0/9/S/20/E/23/0/0/6/PM/N/429.00/W/0/967.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:00 - 6:00	0.00	CSG					<p>CONDUCTOR CASING: Cond. Depth set: Cement sx used:</p> <p>SPUD DATE/TIME: 12/27/2009 15:30</p> <p>SURFACE HOLE: 11" Surface From depth:40 Surface To depth: 2,736 Total SURFACE hours: 29.50 Surface Casing size:8.625" # of casing joints ran: 62 Casing set MD:2,736.0 # sx of cement:575 Cement blend (ppg.):11 Cement yield (ft3/sk): 3.82 # of bbls to surface: 15 Describe cement issues: Describe hole issues:</p> <p>PRODUCTION: 7.875" Rig Move/Skid start date/time: 3/30/2010 8:00 Rig Move/Skid finish date/time:4/1/2010 20:00 Total MOVE hours: 60.0 Prod Rig Spud date/time: 4/2/2010 6:00 Rig Release date/time: 4/13/2010 6:00 Total SPUD to RR hours:264.0 Planned depth MD 10,641 Planned depth TVD 10,639 Actual MD: 10,641 Actual TVD: 10,638 Open Wells \$: \$981,471 AFE \$: \$999,074 Open wells \$/ft:\$92.23</p> <p>PRODUCTION HOLE: 7.875" Prod. From depth: 2,736 Prod. To depth:10,575 Total PROD hours: 160.5 Log Depth: 6846 Production Casing size: 4 1/2 # of casing joints ran: 252 Casing set MD:10,626.00 # sx of cement:545 / 1262 Cement blend (ppg.):12.3 / 14.3 Cement yield (ft3/sk): 2.12 / 1.31 Est. TOC (Lead & Tail) or 2 Stage : 0 / 4632 Describe cement issues: NONE Describe hole issues: NONE</p> <p>DIRECTIONAL INFO: KOP: Max angle: Departure: Max dogleg MD:</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-23D			Spud Conductor: 2/9/2010			Spud Date: 2/24/2010		
Project: UTAH-UINTAH			Site: NBU 920-23D			Rig Name No: GWS 1/1		
Event: COMPLETION			Start Date: 4/28/2010			End Date: 4/30/2010		
Active Datum: RKB @4,848.00ft (above Mean Sea Leve			UWI: NW/NW/0/9/S/20/E/23/0/0/6/PM/N/429.00/W/0/967.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/26/2010	7:00 - 15:00	8.00	COMP	30	A	P		[DAY1] JSA--P/U TBG ROAD RIG FROM NBU 920-23F TO NBU 920-23D. MIRU, SPOT EQUIPMENT. NDWH, NUBOP. R/U FLOOR & TBG EQUIPMENT. P/U 3-7/8" MILL & NEW 2-3/8" L-80 TBG & RIH. [SLM] EOT @ 9963'. NOTE: PRIOR TO MIRU. HLBRTN RAN A CBL-CCL-GR LOG FROM 10,540 TO SURFACE. EST CMT TOP @ SURFACE. MAX TEMP 228*. 3P SWI- SDFN JSA--POOH W/ TBG.
4/27/2010	7:00 - 15:00	8.00	COMP	30		P		[DAY2] EOT @ 9963'. POOH STDG BACK TBG. L/D BHA. R/D FLOOR & TBG EQUIPMENT. NDBOP, N/U FRAC VALVES. MIRU B&C TESTERS. P.T. 4-1/2" CSG & FRAC VALVES TO 7000#. [HELD GOOD] RDMO B&C QUICK TEST. 3PM SWI-SDFN. PREP TO FRAC IN AM.

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-23D	Spud Conductor: 2/9/2010	Spud Date: 2/24/2010
Project: UTAH-UINTAH	Site: NBU 920-23D	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 4/28/2010	End Date: 4/30/2010
Active Datum: RKB @4,848.00ft (above Mean Sea Level) UWI: NW/NW/0/9/S/20/E/23/0/0/6/PM/N/429.00/W/0/967.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/28/2010	7:00 - 20:30	13.50	COMP	36	E	P		<p>JSA-- FRAC TECH & CASED HOLE ALL CREWS ON LOCATION.</p> <p>PRIOR TO FRACING, TANKS WERE ROLLED AND CHECKED FOR H2S. NONE FOUND.</p> <p>MIRU FRAC TECH & CASED HOLE SOLUTIONS.</p> <p>[STG#1] RIH W/ PERF GUNS & PERF THE M.V. @ 10,428-10,432 & 10,488-10,494, 4 SPF, USING 3-3/8 EXP GUNS, 23 GM, 0.36, [40 HOLES] WHP=165#. P.T. SURFACE LINES TO 8000#. BRK DN PERFS @ 3687 @ 6 BPM. ISIP=3133, FG=.73. BULLHEAD 3 BBLS 15% HCL. CALCULATE 100% PERFS OPEN. PMP'D 948 BBLS SLK WTR & 26,749# 30/50 TEXAS GOLD SAND W/ 5000# 20/40 SLC SAND @ TAIL. ISIP=3363, FG=.75, NPI=230, MP=6484, MR=52, AP=5530, AR=48 BPM.</p> <p>[STG#2] RIH W/ HLBRTN 8K CBP & PERF GUNS. SET CBP @ 10,206. PERF THE M.V. @ 9942-9944, 9994-9996, & 10,170-10,176, 4 SPF, USING 3-3/8" EXP GUNS, 23 GM, 0.36, [40 HOLES]. WHP=1400. BRK DN PERFS @ 3952 @ 6 BPM. ISIP=3351, FG=.77, CALCULATE 31/40 78% PERFS OPEN. PMP'D 820 BBLS SLK WTR & 28,149# 30/50 TEXAS GOLD SAND W/ 5000# SLC 20/40 SAND @ TAIL. ISIP=3616, FG=.79, NPI=265, MP=6630, MR=53, AP=6150, AR=48 BPM.</p> <p>[STG#3] RIH W/ HLBRTN 8K CBP & PERF GUNS. SET CBP @ 9918. PERF THE M.V. @ 9846-9850, 4 SPF, 9866-9872, 3 SPF, & 9886-9888, 4 SPF USING 3-3/8" EXP GUNS, 23 GM, 0.36, [42 HOLES] WHP=1337. BRK DN PERFS @ 5848 @ 6 BPM. ISIP=3316, FG=.77, CALCULATE 100% PERFS OPEN. PMP'D 1042 BBLS SLK WTR, 38,747# 30/50 TEXAS GOLD W/ 5000# SLC 20/40 SAND. ISIP=3369, FG=.77, NPI=53, MP=6508, MR=53, AP=5400, AR=52 BPM.</p> <p>[STG#4] RIH W/ HLBRTN 8K CBP & PERF GUNS. SET CBP @ 9704. PERF THE M.V. @ 9392-9394, 3 SPF, 9472-9476, 2 SPF, & 9668-9674, 4 SPF, USING 3-3/8" EXP GUNS, 23 GM, 0.36, [38 HOLES] WHP=1540. BRK DN PERFS @ 4111 @ 6 BPM. ISIP=2762, FG=.72, CALCULATE 100% PERFS OPEN. PMP'D 1357 BBLS SLK WTR, 53,789# 30/50 TEXAS GOLD SAND W/ 5000# SLC 20/40 SAND @ TAIL. ISIP=3145, FG=.76, NPI=383, MP=6148, MR=52, AP=4910, AR=51 BPM.</p> <p>[STG#5] RIH W/ HLBRTN 8K CBP & PERF GUNS. SET CBP @ 9016. PERF THE M.V. @ 8964-8968 & 8980-8986, 4 SPF, USING 3-3/8" EXP GUNS, 23 GM, 0.36, [40 HOLES] WHP=1425. BRK DN PERFS @ 4859 @ 6 BPM. ISIP=2797, FG=.74. CALCULATE 100% PERFS OPEN. PMP'D 1323 BBLS SLK WTR, 52,415# 30/50 TEXAS GOLD SAND W/ 5000# SLC 20/40 SAND @ TAIL. ISIP=3098, FG=.78, NPI=301, MP=5990, MR=52, AP=4805, AR=51 BPM.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-23D	Spud Conductor: 2/9/2010	Spud Date: 2/24/2010
Project: UTAH-UINTAH	Site: NBU 920-23D	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 4/28/2010	End Date: 4/30/2010
Active Datum: RKB @4,848.00ft (above Mean Sea Leve		
UWI: NW/NW/0/9/S/20/E/23/0/0/6/PM/N/429.00/W/0/967.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								<p>[STG#6] RIH W/ HLBRTN 8K CBP & PERF GUNS. SET CBP @ 8150. PERF THE WASATCH @ 7972-7974, 8024-8026, 8046-8048, 3 SPF, 8102-8104 4 SPF, & 8124-8128, 3 SPF, USING 3-3/8" EXP GUNS, 23 GM, 0.36, [38 HOLES] WHP= 763. BRK DN PERFS @ 2485 @ 4 BPM. ISIP=2126, FG=.70. CALCULATE 82%, 31/38 PERFS OPEN. PMP'D 1354 BBLS SLK WTR, 61,358# 30/50 TEXAS GOLD SAND W/ 5000# SLC 20/40 SAND W/ 5 GAL RESIN ACTIVATOR MIXED IN @ TAIL.. RAMP TO 3# SAND. ISIP=3110, FG=.82, NPI=984, MP=6437, MR=52, AP=4788, AR=51 BPM.</p> <p>[STG#7] RIH W/ HLBRTN 8K CBP & PERF GUNS. SET CBP @ 7670'. PERF THE M.V. @ 7624-7634, 4 SPF, USING 3-3/8" EXP GUNS, 23 GM, 0.36, [40 HLS] WHP= 1078#. BRK DN PERFS @ 3492# @ 5 BPM. ISIP=2485, FG=.76. CALCULATE 34/40, 85% PERFS OPEN. PMP'D 760 BBLS SLK WTR, 35,136# 30/50 TEXAS GOLD SAND W/ 5000# 20/40 SLC SAND W/ 5 GAL RESIN ACTIVATOR MIXED IN @ TAIL. RAMP TO 3# SAND. ISIP=2845, FG=80, NPI=360, MP=6572, MR=52, AP=4440, AR=51 BPM.</p> <p>[KILL PLUG] RIH W/ HLBRTN 8K CBP & SET @ 7574'. COULD NOT GET OFF PLUG. PULL OUT OF ROPE SOCKET. POOH W/ WIRE LINE. RDMO CASED HOLE SOLUTIONS & FRAC TECH. GRAND TOTAL 30/50 & SLC SAND=296,343# & TOTAL FLUID=7604 BBLS. CALL FOR FISHING HAND TO FISH WEIGHT BARS, CCL & SETTING TOOL IN AM. FISH TOP @ 7150'</p> <p>SWI-SDFN. JSA--- FISHING TOOLS. MONUMENT MNTHLY SFTY MTG.</p> <p>[DAY 4] SICP=0#. ND FRAV VALVES, NUBOP. R/U FLOOR & TBG EQUIPMENT. P/U 3-1/8" O.S., EXT, B.S. & JARS & RIH ON 2-3/8" TBG. TAG SAND @ 7539'. WASH OVER & C/O TO TOP OF FISH @ 7550. LATCH ON FISH. JAR LOOSE IN 7 TRIES. POOH STDG BACK TBG. L/D FISHING TOOLS & WIRELINE TOOLS.</p> <p>P/U 3-7/8" SEALED BIT, POBS W/ XN & RIH OUT OF DERRICK ON 2-3/8" L-80 TBG. TAG CBP# 1 @ 7574'.</p> <p>SW-SDFN</p>
4/29/2010	8:00 - 17:00	9.00	COMP	30		P		

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-23D	Spud Conductor: 2/9/2010	Spud Date: 2/24/2010
Project: UTAH-UINTAH	Site: NBU 920-23D	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 4/28/2010	End Date: 4/30/2010
Active Datum: RKB @4,848.00ft (above Mean Sea Leve		
UWI: NW/NW/0/9/S/20/E/23/0/0/6/PM/N/429.00/W/0/967.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/30/2010	7:00 -		COMP	30		P		<p>[DAY 5] JSA DRILLING PLUGS.</p> <p>EOT @7507'. ESTABLISH CIRCULATION W/ 2% KCL WTR. P.T. BOP TO 2500#. RIH, TAG SAND @ 7517'. C/O 10' SAND TO CBP# @ 7527'. WAS SET @ 7574'. SLID UP HOLE WHEN SET & TRYING TO GET OFF & JAR TOOLS LOOSE.</p> <p>[DRLG CBP#1] @ 7527'. D/O HLBRTN 8K CBP IN 10 MIN. 100# INCREASE. RIH, TAG SAND @ 7630'. C/O 40' SAND.FCP=100#</p> <p>[DRLG CBP#2] @ 7670. D/O HLBRTN 8K CBP IN 10 MIN. 100# INCREASE. RIH, TAG SAND @ 8120'. C/O 30' SAND.FCP=150#.</p> <p>[DRLG CBP#3] @ 8150'. D/O HLBRTN 8K CBP IN 10 MIN. 100# INCREASE. RIH, TAG SAND @ 8991'. C/O 25' SAND.FCP=300#</p> <p>[DRLG CBP#4] @ 9016'. D/O HLBRTN 8K CBP IN 10 MIN. 50# INCREASE. RIH, TAG SAND @ 9679'. C/O 25' SAND. FCP=400#.</p> <p>[DRLG CBP#5] @ 9704'. D/O HLBRTN 8K CBP IN 5 MIN. 50# INCREASE. RIH, TAG SAND @ 9888'. C/O 30' SAND. FCP=400#.</p> <p>[DRLG CBP#6] @ 9918'. D/O HLBRTN 8K CBP IN 6 MIN. 50# INCREASE. RIH, TAG SAND @ 10,196'. C/O 10' SAND.FCP=425#.</p> <p>[DRLG CBP#7] @ 10,206'. D/O HLBRTN 8K CBP IN 7 MIN. 25# INCREASE. RIH, TAG SAND @ 10,515'. C/O 67' SAND TO PBD @ 10,582'. CIRCULATE WELL CLEAN. R/D SWVL. POOH & L/D 21 JTS ON FLOAT. LAND TBG ON HNGR W/ 314 JTS NEW 2-3/8" L-80 TBG. EOT @ 9914.22' & POBS W/ XN @ 9912.02. AVG 8 MIN PLUG & C/O 237' SAND. R/D FLOOR & TBG EQUIPMENT. NDBOP, NUWH. DROP BALL DOWN TBG & PMP OFF THE BIT @ 2800#. OPEN WELL TO FLOW BACK TANK ON OPEN CHOKE. FTP=100, SICP=2450#.</p> <p>2 PM TURN WELL OVER TO FBC. LTR @ 2 PM= 5204 BBLs. RACK EQUIPMENT. RIG DOWN RIG.</p> <p>3 PM SDF-WE</p> <p>NOTE: 349 JTS DELIVERED. 2-3/8" L-80 NEW 314 JTS LANDED. 35 JTS RETURNED. WELL TURNED TO SALES @ 1200 HR ON 5/1/10 - 1700 MCFD, 1200 BWPD, CP 3000#, FTP 2200#, CK 20/64"</p> <p>7 AM FLBK REPORT: CP 2750#, TP 2150#, 20/64" CK, 55 BWPH, MED SAND, - GAS TTL BBLs RECOVERED: 3513 BBLs LEFT TO RECOVER: 4091</p> <p>7 AM FLBK REPORT: CP 3000#, TP 2100#, 20/64" CK, 43 BWPH, MED SAND, - GAS TTL BBLs RECOVERED: 4640 BBLs LEFT TO RECOVER: 2964</p>
5/1/2010	12:00 -		PROD	50				
	7:00 -			33	A			
5/2/2010	7:00 -			33	A			

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-23D		Spud Conductor: 2/9/2010		Spud Date: 2/24/2010	
Project: UTAH-UINTAH		Site: NBU 920-23D			Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 4/28/2010		End Date: 4/30/2010	
Active Datum: RKB @4,848.00ft (above Mean Sea Leve		UWI: NW/NW/0/9/S/20/E/23/0/0/6/PM/N/429.00/W/0/967.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/3/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2650#, TP 1800#, 20/64" CK, 31 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 5446 BBLS LEFT TO RECOVER: 2158
5/4/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2500#, TP 1625#, 20/64" CK, 23 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 6046 BBLS LEFT TO RECOVER: 1558
5/5/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2200#, TP 1500#, 20/64" CK, 8 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 6258 BBLS LEFT TO RECOVER: 1346

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 920-23D
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0429 FNL 0967 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 23 Township: 09.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047505740000
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/12/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

REQUEST DENIED
Utah Division of
Oil, Gas and Mining

Date: August 23, 2010

By: _____

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 8/12/2010



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047505740000

API: 43047505740000

Well Name: NBU 920-23D

Location: 0429 FNL 0967 FWL QTR NWNW SEC 23 TWNP 090S RNG 200E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 8/11/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

REQUEST DENIED
Utah Division of
Oil, Gas and Mining

Signature: Danielle Piernot

Date: 8/12/2010

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P. **Date:** August 23, 2010

By: _____

RECEIVED August 12, 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 920-23D
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0429 FNL 0967 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 23 Township: 09.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047505740000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

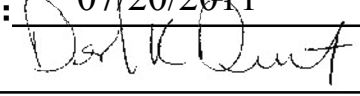
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/12/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: Wellhead Repair

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedure for the proposed repair work on the subject well location.

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 07/20/2011

By: 

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 7/12/2011	

WORKORDER #: 88119340

Name: NBU 920-23D 7/11/2011
Surface Location: NWNW Sec. 23, T9S, R20E
 Uintah County, UT

API: 4304750574 **LEASE#:** UTU-0577A

ELEVATIONS: 4835' GL 4848' KB

TOTAL DEPTH: 10,641' **PBTD:** 10,538'

SURFACE CASING: 8 5/8", 28# J-55 @ 2746'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 10,626'
 TOC @ 754' per CBL (with min 50' isolation)

PERFORATIONS: Wasatch 7624' - 8128'
 Mesaverde 8964' - 10,494'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft./ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
8.625" 28# J-55	8.097	1370	2950	2.6223	0.3505	0.0624
Annular Capacities						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01

GEOLOGICAL TOPS:

1749' Green River
 2489' Mahogany
 5143' Wasatch
 8386' Mesaverde

NBU 920-23D- WELLHEAD REPAIR PROCEDURE

PREP-WORK PRIOR TO MIRU:

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~7574'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

CUT/PATCH PROCEDURE:

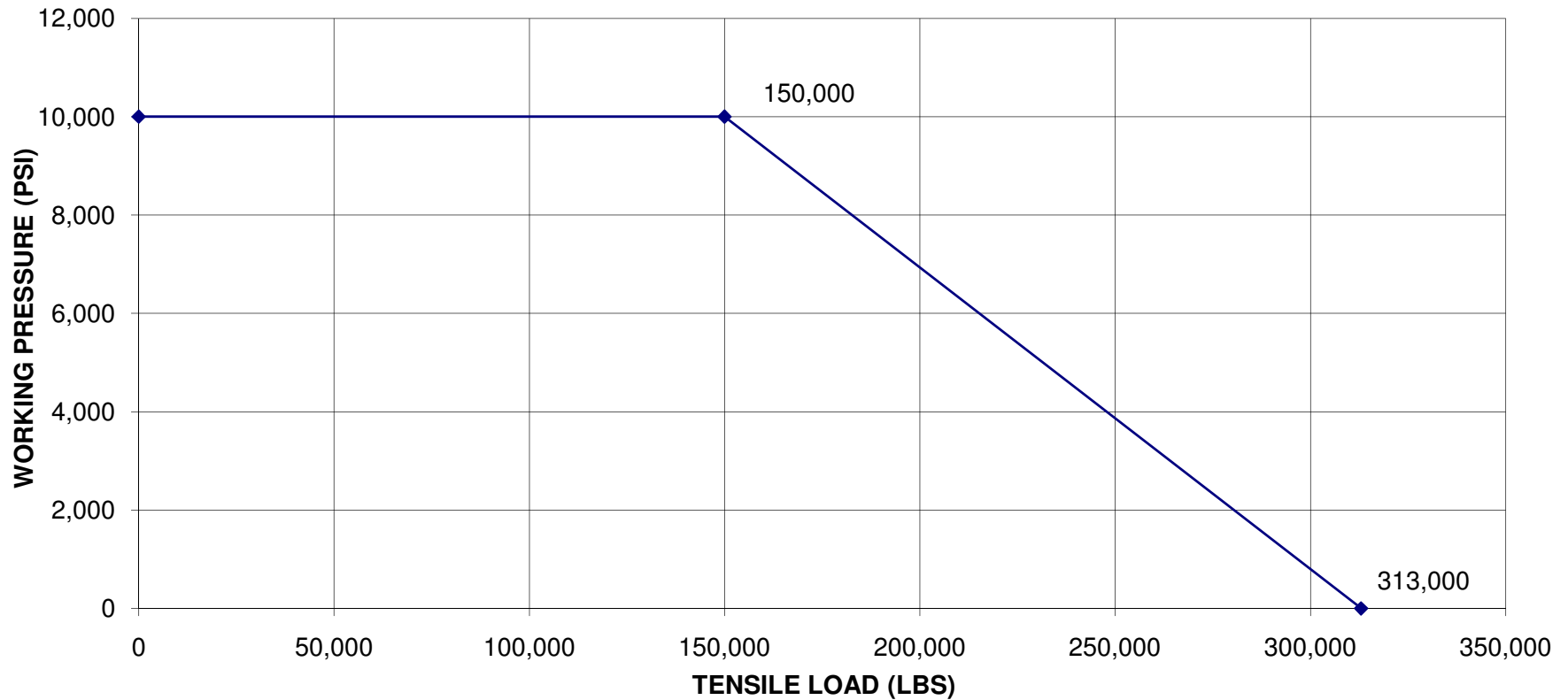
1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 7 3/8" overshot with 4 1/2" right hand standard wicker grapple, 1 - 4 3/4" drill collar with 3 1/2" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshot, POOH, and lay down.
4. TIH w/ skirted mill and dress off the fish top for approximately 1/2 hour. TOOH.
5. PU & RIH w/ 4 1/2" 10k external casing patch on 4 1/2" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.
6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 3500 psi.
7. Install slips. Land casing w/ 80,000# tension.
8. Cut-off and dress 4 1/2" casing stub.
9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7524'. Clean out to PBTD (10,538').
10. POOH, land tbg and pump off POBS.
11. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.
2. POOH, LD cutters and casing.
3. PU 4 1/2" overshot. RIH, latch fish. Pick string weight to neutral.
4. MIRU casing crew and wireline services. RIH and shoot string shot at casing collar @ ± 46'.
5. Back-off casing, POOH.

6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to ± 7000 ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ± 7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.
7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 3500 psi.
8. Install slips. Land casing w/ 80,000# tension.
9. Cut-off and dress 4 1/2" casing stub.
10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7524'. Clean out to PBTD (10,538').
11. POOH, land tbg and pump off POBS.
12. NUWH, RDMO. Turn well over to production ops.

**STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L
LOGAN ASSEMBLY NO. 510L-005 -000**



COLLAPSE PRESSURE:
11,222 PSI @ 0 TENSILE
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:
Tensile Strength w/ 0 Int. Press.= 472,791lbs.
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

RECEIVED Jul. 12, 2011



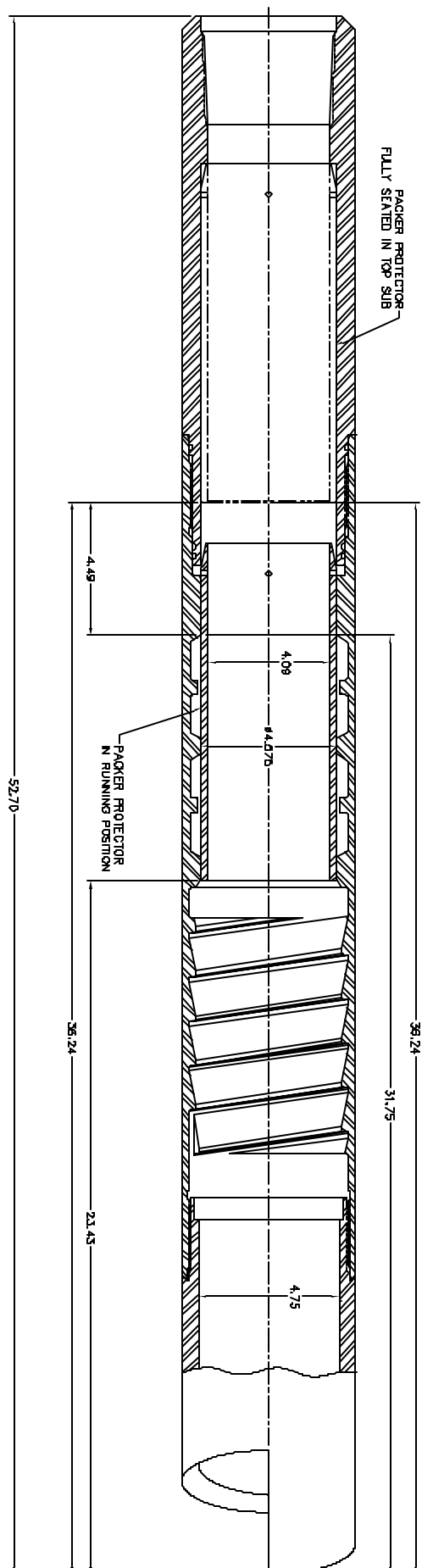
Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

1. Install all four Logan Type "L" Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type "L" Packers.
3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.
4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.
5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.
6. Install the Cutlipped Guide into the lower end of the Bowl.
7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.
8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.

510L-005-001 4-1/2" LOGAN HP CASING PATCH



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 920-23D
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0429 FNL 0967 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 23 Township: 09.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047505740000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/24/2011	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator has concluded the wellhead/casing repairs on the subject well location. Please see that attached chronological history for details of the operations.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 18, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 7/17/2012	

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-23D				Spud Conductor: 2/9/2010				Spud Date: 2/24/2010			
Project: UTAH-UINTAH				Site: NBU 920-23D				Rig Name No: MONUMENT/698			
Event: WELL WORK EXPENSE				Start Date: 10/12/2011				End Date: 10/17/2011			
Active Datum: RKB @4,848.00usft (above Mean Sea Level)				UWI: NW/NW/0/9/S/20/E/23/0/0/6/PM/N/429.00/W/0/967.00/0/0							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation			
10/12/2011	12:00 - 13:00	1.00	ALL	30	G	P		ROAD RIG F/ NBU 920-23M TO NBU 920-23D.			
	13:00 - 13:30	0.50	ALL	48		P		HSM, REVIEW RU & RD			
	13:30 - 15:00	1.50	ALL	30	A	P		MIRU			
	15:00 - 17:00	2.00	ALL	47	A	P		BLEW TBG DWN, CONTROL TBG W/ 10 BBLS, ND WH, NU BOP'S, RU FLOOR & TBG EQUIPMENT, UNABLE TO UNLAND TBG HANGER DUE TO PIPE RAMS LEAKING WILL REPLACE AM. SWI, SDFN.			
	7:00 - 9:00	2.00	PROD	35				Tb 128 Cs 582 FL 8450 Ran w/Up Shear Fish Tool to SN at 9960, latched, pulled Shear Master Floating Spring, pulled out. Returned well to production. Rigged down. For Rig Job.			
10/13/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW SETTING CIBP.			
	7:30 - 11:00	3.50	ALL	31	I	P		FCP. 130 PSI. SITP. 550 PSI. REPLACE PIPE RAM ON BOP'S, UNLAND TBG HANGER, POOH 314 JTS. 2-3/8 L-80 TBG, LD POBS.			
	11:00 - 12:30	1.50	ALL	34	I	P		RU J-W WIRELINE COMPANY, RIH & SET 4-1/2 BAKER 10K CIBP @ 7560', POOH TOOLS, RD J-W WIRELINE COMPANY.			
	12:30 - 15:00	2.50	ALL	33	D	P		FILL CSG W/ T-MAC, PRESSURE TEST CIBP TO 3000 PSI. SWI, SDFN.			
10/14/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW BACK-OFF PROCEDURE			
	7:30 - 9:00	1.50	ALL	47	A	P		RD FLOOR & TBG EQUIPMENT, ND BOP'S, NU CSG BOWL, RU PWR SWVL, PU INTERNAL CSG CUTTER & RIH, CUT CSG 3' F/ SURFACE, POOH, LD CUTTER & CSG W/ MANDRAL, RD PWR SWVL, PU 4-1/2 OVERSHOT, RIH, LATCH FISH, MIRU CSG CREW & WIRELINE SERVICES, RIH & SHOT STRING COLLAR, BACK-OFF CSG PUP JNT, POOH, PU NEW 15' CSG PUP, TAG CSG TOP, THREAD INTO CSG, TORQUE CSG TO 7000# W/ 22 ROTATIONS ON CSG, PU 4-1/2 CSG TO 100,000# TENSION, RD CSG CREW & WIRELINE SERVICES.			
	9:00 - 10:15	1.25	ALL	33	C	P		RU B&C QUICK TEST, P.T. 4-1/2 CSG TO 1000 PSI. FOR 15 MINS, LOST 31 PSI. IN 15 MINS, P.T. 4-1/2 CSG TO 3500 PSI. FOR 30 MINS, LOST 37 PSI. IN 30 MINS, NO COMMUNICATION BETWEEN 4-1/2 & SURFACE CSG, RD B&C QUICK TEST.			
	10:15 - 15:00	4.75	ALL	31	I	P		SET C-21 SLIPS, LAND 4-1/2 CSG W/ 80,000# TENSION, CUT-OFF & DRESS 4-1/2 CSG STUB, INSTALL FLANGE W/ CROSSOVER SPOOL, TORQUE ALL 1-7/8 BOLTS, NU CSG BOWL, NU BOP'S, RU FLOOR & TBG EQUIPMENT, PU 3-7/8 W/ 1.875 XN POBS & RIH 240 JTS. 2-3/8 L-80 TBG, TAG CIBP @ 7560', RU PWR SWVL, SWI, SDFWE.			
10/17/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW RU PWR SWVL, FOAM UNIT			
	7:30 - 9:30	2.00	ALL	44	C	P		RU TECH FOAM, EST CIRC IN 30 MINS, D/O CIBP @ 7560' IN 1HR. 33 MINS, HAD 50 PSI. INCREASE, KILL TBG, LD PWR SWVL.			

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-23D		Spud Conductor: 2/9/2010		Spud Date: 2/24/2010	
Project: UTAH-UINTAH		Site: NBU 920-23D			Rig Name No: MONUMENT/698
Event: WELL WORK EXPENSE		Start Date: 10/12/2011		End Date: 10/17/2011	
Active Datum: RKB @4,848.00usft (above Mean Sea Level)			UWI: NW/NW/0/9/S/20/E/23/0/0/6/PM/N/429.00/W/0/967.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	9:30 - 15:30	6.00	ALL	31	I			<p>RIH TBG F/ DERRICK, PU 21 JTS. F/ TRAILER, TAG PBTD @ 10,538' CIRC WELL CLEAN, KILL TBG, RD PWR SWVL, DROP BALL, PUMP BIT OFF, W/ 1900 PSI, POOH LD 21 JTS. ON TRAILER, LAND TBG HANGER, RU SWAB EQUIPMENT, RIH W/ 1.9 & BROACH TO 9914', POOH, RD SWAB EQUIPMENT, RD FLOOR & TBG, ND BOP'S, NU WH, RDMO, MOVE TO NBU 920-23F.</p> <p>TBG DETAIL</p> <p>KB-----13' HANGER-----1.0' 314 JTS. 2-3/8 L-80 TBG-----9898.02 1.875 XN Half POBS-----2.20' EOT @-----9914.22' WLTR. 80 BBLS. TOP PERF @ 7624' BTM PERF @ 10,494' PBTD @ 10,538' API # 4304750574</p>
10/24/2011	7:00 - 11:00	4.00	PROD	35				<p>Tb 189 Cs 668 FL GC Ran Spear to TD at 10627, pulled out. Ran w/1.910 Broach to SN at 9960, pulled out. Dropped New Titanium Spring w/single X-cups and roll pin, chased w/1.910 to SN, set Spring, pulled out. Returned Well to Production. Rigged Down</p>